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ABC July-December 1997 28,161

AUGUST 1997 • CONTENTS



Things are kicking off again on the Amiga scene. Gone is the dreary self pitty that's been too common over the past couple of years, replaced by a wave of fresh

proactive schemes designed to put some action back into the Amiga scene. The arrival of phase 5's PowerPC cards is going to spark a revolution, with software developers already working on next generation

applications and games that are going to turn your Amiga into a Pentium beater almost overnight. See the features on pages 26 and 30 for more. Take advantage of our great Storm C cover mount with the new tutorial series and you too can play a major part in the renaissance.

10mg

Tony Horgan, Editor

# **Cover Feature**

# 20 Crack the Code

So you want to get the most from your Amiga? Then learn to program it! Learning the art of computer programming is not as hard as you might think, and this month we give you all that's required to get started: the Storm C compiler on the cover disks and CD, coupled with a new style of tutorial that promises fast results, and will give you all the tools you'll need to start programming and put yourself firmly in the driving seat.



# Features

# 26 Power Gaming

We know that MYST is coming and we've even played Duke Nuke 'em 3D in the office. All these titles are now appearing on the horizon thanks to the rise of the 68030 and the long awaited PowerPC. Find out what we know about the future of games for the power users of Amiga...

# 30 PowerPC is Coming!

The most significant advance on the Amiga scene since the A1200 is about to happen: PowerPC accelerators that run at over 100 times the speed of current Amigas will be available within weeks, offering affordable Pentium-beating performance to the mass Amiga market!

# Cover Disks & Super CD-ROM



Low-tech, high-thrills one-on-one action in this farcical tribute to the biplanes of old.

# 8 Storm C Compiler

The Storm C compiler is the best commercial and fully supported C compiler currently available for the Amiga, and we bring you the latest useable demo version - limited only by the length of time that it will run. A truly professional program.

# 12 Super CD-ROM 13

Want the best in Amiga CD-ROMs? So do we at CU Amiga, and we know that if you're reading this then you're almost there .. CD-ROM Number 13 is lashed to the cover, heavy with top utilities, programs and games.

# News

12 Amiga license Micronik towers, the fastest accelerator yet unleashed and the regular roundain of all Amiga news

# round-up of all Amiga news.

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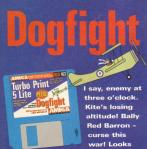












like we're not going to make it back to old Blighty in time for tea after all, Algernon. 3D graphics? Lightspeed action? Dogfight has neither, but it's more fun than anything we've played in ages!

## How to load

This one is pretty easy. Even Ginger could manage to get this one right after he'd got a bit squiffy in the flyers' mess. What you do is boot up your Workbench, stick the Dogfight disk into your drive, click on the disk icon and then click on the Dogfight icon. Then the program runs. It really is easy, which is lucky because it means you can save your energy for trying to defeat your fee!



 A German biplane lies in wreckage, but there's another Fokker waiting in the wings. ook out Tommy, this war isn't over yet!



here are a few things you will need to play this game. A few this, game. A few this, game is the few this game is the few this game is more mentally straightforward. You take on the role of a World War 1 flyer for either the Germans or the English. All you have to do is take off, fly across the channel.

and blast your enemy's aircraft out from underneath him.

Flying a biplipane sin! for an easy task. No fly by wire, this is point up, but it is in the sin and t

The hardest part is taking off. Not only do you have to get up enough speed before take-off to avoid stalling, but someone decided of palnat a tree at the end of the runway. The trick is to wait until you get quite close to the tree, pull up hard and level out quickly as soon as you are higher than the tree. You will stall in mid-air if your speed drops too low, so watch those loop-the-loops! Be careful of other threats –

an anti-aircraft gun,
but you will often
see a zeppelin or a
submarine appear.
Look carefully to
see what flag they
are flying, because
some are on your
side and others are on
your foe's. Shoot down

not only is your enemy's

airfield protected with

subs for some extra points.
Thanks go to author Richard
Ling for the best version yet of
this classic. If you enjoy this game
as much as we do, you could
send Richard a postcard. See the
AmigaGuide document for details.
We want his postman to suffer!



▲ 1 say! Those chaps from the blimp have come to the rescue again. Take that, you Hun!
But wait... losing speed... kite's stalling... damn! Looks like I'll never see old Blighty again.

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Turbo Print and Storm C in one month - what's the catch? One is a 'lite' version and one is time limited, but they are both fully

useable, and both totally brilliant. No catch, We just like to spoil you!

# Loading instructions





Storm C 2.0: Installation of Storm C is a simple enough process. Stick the disk in your drive, click on the disk icon, then on the Install StormC icon and select the directory you would like Storm C to be unarchived to. Make sure you have 4Mb of spare space. Open your new StormC drawer and you will find a standard installer icon to install Storm C to your system. CUCD owners can just click on the install item from the CD StormC drawer. Finally, learn C and write a killer program.

Turbo Print 5 Lite: Don't be deceived by the label, you'll actually find the Turbo Print icon on the same disk as Storm C. The procedure is also the same - click on the icon above to decompress the archive, then click on the installer icon in your new Turbo Print drawer to install to your system. Follow on screen instructions to choose which printers you want installed and whether or not Turbo Print should be started when you boot up from Workbench.

#### 16 Mio.Colours Diffuse Type B Size C F-S Big VI Pure Black VI TrueMatch Correction Settings... []|Super 100 | Negative 188 Mirror Colour Brancoon Cancel Iest Save | Use |

Here it is, the powerhouse of Turbo Print, the Turboprefs utility

# **Print 5 Lite**

you'll find it will happily beaver away without to get the best out of need to know

Left M Too S An example of Graphics Publisher in action.

Turboprefs is where you can tell Turbo Print to change the printer type you are using or change the paper size and so on. sented with a deceptively simple looking screen, from where you can select a printer. There are only alternative port: avoid this unless you have a fast parallel port add on such as PortPlus. Look at the basic as they look. There are click tabs to navigate through seven different screens full of preference options, to allow you to do select everything from output resolution and page size through to

dithering types and smoothing options. Note that one or two

options are disabled in this version. It is a good idea to play around with Turboprefs to find out the best settings for your printer, but you'll probably want to change options every now and then depending on what you want to print out. It isn't worth printing just waste time and ink. Print density in the Config screen has a major impact on both output quality and speed, and is the main way you will trade these two off.

The Hardcopy screen gives you the option to either ignore or use Workbench preferences - this allows Workbench printer preferences to alter your Turbo Print preferences. Be aware of this option to avoid future confusion.

The other main program in the Turbo Print Drawer is the graphics publisher. This allows you to print image pages out at the highest possible quality and has a wide selection of image manipulation can place multiple images on a single page and layer images over each other. The range of options you've mastered the toolbar, you'll find the rest is quite straightfor click on a particular image to The Graphics Publisher will only print one half of the page in this demo version but Wizard are offering readers of CU a special upgrade offer - see page 34. Last but not least, make sure you read the readme for additional details









Picture settings

# Storm C 2.0



A time-limited but fully functional version of the excellent Storm C compiler has been included for you on this month's CU

steps for creating the very simple (and very standard) Hello World Step 1

Open the Storm C commercial compiler being activeinstalled it) and then double-click on the Storm C PP icon to start the IDE. Storm C is so run any part of it from the Shell. Everything must be run from the IDE. You can even run the programs you create in a very safe way from the IDE, as we'll see later

#### Step 2

To create a new project, click on the Open new project window icon on the tool bar of the main IDE window, or select New from the Project menu, or simply press F4. A new window will appear that lists the sources, link libraries and other files used in your project. By default it should have just a Libraries section. We will soon be adding a new source file to

#### If the Libraries section includes

'amiga.lib' then skip to the next step. Otherwise, we need to add it, since the tutorial examples all require this link library. Select Add Library(s) from the Project menu and double-click on 'amiga.lib' in the file requester that appears. Now select Save As Project Template from the Project menu The next time you create a new

project, it will automatically have 'amiga.lib' in the Libraries section. Step 4

Now select Save As from the Project menu. Choose a directory



Step 5

files, since all file

The next thing to do is give the name of the executable that we want to create. Choose Select Executable... from the Project menu, and change the name from 'a.out' to a more suitable one (i.e 'hello'). A new Executable section should appear

DetaAntices/C-CuAngo/boxcs21

in the project window.

Now we can add a file to the project. Select Add File(s) from the Project menu. Give a new filename like 'hello.c' (the name must end with '.c'). You should be greeted with a requester saying the file doesn't exist and asking if a new file should be created. Click on the Create button and the file will appear in the new Sources section of the project.

Step 7 To edit the new file you need to

double-click on the filename in the Sources section. The editor will then appear with a blank sheet, waiting for you to type in the following code: #include<stdio.h>

void main()

printf("Hello World! \n");

Take particular care with the funny

characters #, {, }, and \. You'll find them on your keyboard eventually! Hopefully, as you type the last letter of "#include" it will change colour, depending on how many colours your Workbench can display. The same should happen with 'void', 'printf' and the whole of the greeting string in the double quotes. This gives a nice visual aid to help check that what

N OTHER CASE IN LAST

Step 8 Once you've typed in the code above, click on the Make project icon in the main IDE tool bar, or menu, or simply press F8. This will save the source file and then make the project by compiling everything it needs to (which is just named 'hello.c' in this example). If it all went well, you'll be able to click on the Run button in the compilation window (or press F9). A window called Storm C Console will appear, together with the greeting. And that's it!

## Problems?

If you get any problems with compilation, check you typed in the example accurately. To speed things up, you can double-click on source in the editor. Once you've corrected any mistakes, try compiling again by pressing F8. If you've successfully managed

to get this far then you're now ready to look at the C programming tutorial, starting on page 80 of this month's CU Amiga.

Win a PowerUP If you come up with some great C code, you could win PowerPC card. See page 33

Coverdisk 162 and CD-ROM 13 torm C has a number of distinct advantages over other C (and C++) compilers for the Amiga. Probably most important is the fact that it is the only

ly supported. Haage and Partner

have recently brought out version

2.0 of Storm C, which includes a number of significant improve-

ments over version 1.1 Another unique feature is the Integrated Development Environment (IDE), centred around a visual project manager This greatly eases the chore of getting your project compiled in the correct order, with the right options and link libraries. This means that the only typing you need to do is creating the source code! Which brings us neatly to another thoroughly modern feature: the source editor. It highlights different parts of your code (such as C keywords and Amiga colours, making it much easier to trap typing mistakes. And, should you not be happy with the default editor. Storm C 2.0 has support

The demo version of Storm C with this issue is limited to creating only small examples, but that should be sufficient for you to work through the tutorial projects and get a good feel for how easy the IDE makes things. So go away and install it, then come back and we'll get down to business

for using GoldEd, using the same

# The first project hard disk, follow these simple

len



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Unlucky for some... But certainly not for those of you with a CD-ROM drive. The best disc ever - Yet again!

#### On the disks

#### Storm C 2.0 demo

To go with our programming feature and following C tutorials, a demo version of Haage and Partner's Storm C compiler is included on the CD. It comes with the necessary includes and tutorial source code examples...so just click on the Storm C Installer to start.

#### Turbo Print 5 Lite

Superb quality print outs from a wide variety of printers both old and very new are possible with this exclusive demo of the commer cial printer enhancer package. Just click on the installer to copy

#### Dogfight

To run, just click on the Dogfight icon. See Page 6.



▲ Turbo Print allows vastly superior quality print out from most modern printers.

# **Making things work**

Click on a picture icon and a viewer loads up and displays the image. Click on a mod and a modplayer pops up and plays the tune. As much software as is possible will run from the CD as well. However, some things on the disc won't run when you click on them. There are several reasons for this. If it's a picture or animation you may not have enough memory. If it's a demo it may clash with your system. If it's a utility it may need to be installed and so on. If a program doesn't activate, and no error message comes up, read the documentation.

It can get complex with games and demos. Many are written in an OS illegal fashion, which means that they may not work on every set up. Run the bare minimum Workbench and try them. If this still doesn't work, boot with no startup sequence and activate the program from the shell. You will need to know AmigaDOS well for this.

## What's in your drawers?



Root: The root directory of CUCD13 is set up like a Workbench disk with all the standard directories - C. Devs. tories listed later. You'll find all of these are packed with files that you can use on your own Workbench if you like, just use a Directory Utility to access them Workbench, CD support files such as players and views can Storm C: A useable demo of Storm C 2.0 is here, complete

with the necessary 'includes' to get started in programming those Amiga masterpieces. Turbo Print 5 Lite: Now that Workbench drivers just can't

Dogfight: The simple but fun shoot-em-up will have you and a



System: Delitracker Hippoplayer, GmPlay, Newlcons, ParNET, Flick, Viewtek, VirusZ and more have moved into a new drawer called CDsupport in the standard Workbench system

Tools: A fairly standard Prefs: Standard Preferences drawer with Newlcon prefs.

Utilities: Multiview, Clock, Toolalias and also some Newlcons utilities.

WWW: Demo versions of the major Web browsers: Ibrowse 1.12 and Voyager NG are here plus the brand new AWeb 3.0 demo. There are also pages to you have to do is click on the Show WWW icon and then select which browser you want

to use when asked. CUCD: Here's where you'll

Online: We've got a particularly good online section Miami Speedmeter, Miami 2.1a, Voyager 2.88. Usenet news

Programming: Just in case our programming overdrive wasn't

enough, we've got ing goodies for Blitz Basic, MUIRexx, GUI for CLI, MCC Mail Text, XPK developers kit and MCC HTML extensions.

Graphics: Icons and backdrops are here in abundance, along with

version of the utterly brilliant Wildfire animation and effects system CyberGraphX 3. Picasso 96 1.21, Draw Studio.

Readers: An over-sized grab

bag of contributions from CU Amiga readers graces this bases from tools to

CD-ROM: Plenty of decent CD

MakeCD for writing

filing systems and Aminet CD indexes Demos: More for those who

tunnels and spinmapped objects. They just get better!

Information: Four lovingly to Babylon 5, Star Utilities: Far too many to list them all here, but the selection



MagicWB2.1. Sound: Trackers, players, MIDI files and mods can

the ticket for musicians and music fans alike. mes: Full games, demos and

games can all be Species, F1GP Editor...



Magazine: This is where you'll find most of the bits that tie-in Amiga Magazine. CG fonts and browser demos.

# If your CUCD

does not load If your CD does not load contact Diskxpress on 01451 810788. If they advise that the CD is faulty send it along with a SAE to: CU Amiga Magazine Disk Returns, Diskxpress, 7 Willow Court, Bourton Industrial Park, Bourton on the water, Gloucestershire GL54 2HQ.

Please note that some CDs will not autoboot on systems other than CD32s, so try loading it from Workbench first.

CUCDs will work with almost all Amiga configurations and filesystems. However, we recommend older CD filesystems be replaced where possible.





# News

# Amiga International License Micronik

etro Tyschtschenko, president of Amiga what they come of the common of t

PC-ISA alois, two PCI slots for use with a Pentium disighter board only) and an optional video slot makes the basis of the Infinity A100 tower system. The latest and rid A100 tower system. The latest and rid A100 tower system. The latest and rid A100 tower system which is similar in specification to the 22 but supports Zoro III as well as Zoro II, comes with a video and the system will be a similar to a company of the latest latest that the functionality of an A4000.



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# Fastest 680x0 Accelerator Yet

Eyetech are about to unleash a 66MHz, 68060 accelerator board for the A1200. Made by ACT Electronics, known for its Apollo line of accelerators, the new board plugs straight into the accelerator stor on any standard, non-tower A1200. It also has a single, auto configuring SIMM slot which will take single or double sided SIMMs of up to 32Mb.

The 66MHz speeds are due to the latest developments in Motorola's manufacturing processes. Eyetech claim the 1997 mask revision allows the CPUs to operate up to a sustained 75MHz, atthough Motorola do not currently ship 68060 processors in a version officially listed as 66MHz. The CPU speed was chosen below its sustainable perfor-

mance of 75MHz, to avoid overheating the processor in the small space of an A1200 desktop case. Tower users who may be able to roun 75MHz versions, could also fit second SIMM slots, at time of purchase or retro fitted, allowing them 64Mb of RAM in total. Price: 2399.95, inc VAT.

# Ateo Expansion Bus Gets Faster

French hardware company Ateo Concepts has redesigned its expansion bus board to make its get the board out by early Autumn. They also claim 'The redesign will allow a significant increase in bus speed, allowing the board to compete properly.

Patent delays mean that details of the board are still slow in coming, but Ateo has said that the board is designed to work in by Eagle and Micronik, The around the £150 mark including a graphics card. The original specification was based on the old Cirrus Logic GD5434 chip which Village Tronic used in the Picasso II, but due to supply problems this has changed. A more up to date Cirrus Logic chip will be used, and will ship with 2Mb of video RAM. They claim the new card is equivalent in power to a Cybervision 64. The retarg software for the card will be based on the Picasso 96 RTG system.

has excited a certain amount of speculation. CU Amiga has it's theories, but Atso stated that the bus type is "a standard in the industry but not Zoro". Atso claim further releases of off the shelf products will include; an Ethernet card, an IO card and a SCSI controller. The driver software for each of these units is currently being written. Atso has offered help for anyone writing driver software for any of its products.

The nature of this expansion bus

# Crossgrade Offer

grade' for purchasers of the new version 5.0 of Aladdin 4D. Owners other big name product ImageFX at \$124.95 US when ordering the \$99.95 upgrade to version 5.0 of the 3D package. Conversely, owners of ImageFX can order the upgrade of Aladdin 5.0 to get the full package for the upgrade price

Toaster support, full integration with ImageFX, a new lens flare paths, ARexx support, real time texture previews and a lot more.

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# Gateway Bring Cow to New York

Gateway 2000's CEO Ted Waitt York Stock exchange, with a cow. Traditionally, when a major compathat company is invited to ring the ing on the first day that they are listed. Ted Waitt was accompanied by one of the corporate mascots, around her neck and is the first bovine in history to ring in trading

# **MetalWEB Debuts**

Spanish software company first version of their shareware web page creator with full drag and drop control. The authors claim the package makes web Amiga users without any knowl-



# Nova Design Letter From Petro News in Brief

# To all readers of CU AMIGA Magazine

# **AMIGA**

First of all I would like to say thank you very much for your standing and perience. It is

With Gateway 2000, please be sure, we will have a great and bright future. As I mentioned already in my London speech, the base of my strategy are three elements:

Everaging the existing ANIGA technology through broad scensing

AARICA International, Inc., is exploring all possible products for the marketplace, includ-ing both hardware and software.

We are interested in working with companies such as Phase 5, Microrik, Index and others to develop one unified AMIGA standard. At this time we are identifying candidates to manage the RSD department and will be exploring the most efficient method of performing RSD.

AMIGA's intention is to support the development community through concepts such as the "Open AMIGA Initiative" and will address the features and functions that are neces-

Gateway 2000 will provide resources to reinvigorate the AMIGA market place and keep AMIGA a profratel subsidiary, of this you can be absolutely sure.

The basis of success is to work together with partners - the AMIGA market cannot afford

Long IIve our AMIGA and our AMIGA community

Petro Tyschtschenko, AMIGA International Inc

the Gateway 2000 buyout of the

Amiga. Who better to give it to us than the President of Amiga

types, and a selection of demos

like fractal generators and some

are that it runs parallel to Amiga

# pOS Pre-release

he pre-release CD version of Pro-Dad's Amiga replacement operating system pOS is due in mid July. The CD will feature a a task manager, taskbar and drag DOpus like disk filing system, an HTML viewer, UNIX emulation, a datatypes like file type viewing



Amiga with 4Mb RAM and hard drive as minimum. Full release and PowerPC versions will follow.

# **Golden Image New**

**Products** Golden Image have announced a new range of products, mostly from the Elaborate Bytes/ Individual computers lines. They will be stocking the Catweasel in A1200 and A4000 versions at £55 each, the **Buddha IDE interface Zorro** card also at £55, and the **Buddha plus Catweasel Zorro** cards at £79 - look for a review of this product next month Also announced is the black Amiga logo 400dpi mouse at £9.95 including P&P and the GI Quatro 4 way IDE interface including registered IDEfix '97 for £59.95. Contact Golden Image on 0181 900 9291 for more details.

#### Sadeness Sign Foundation

Sadeness software has announced it's first game release, Foundation, due for release in the Autumn. Sadeness has signed author Paul Burkey to it's label as, they hope, the first of many Citing the competitiveness of the CD-ROM market as the reason for expanding into games, Sadeness has stated their intention to sign up other games developers producing innovative and impressive new games. You can find out more about Foundation in our sneak preview on page 36.

# **Weird Science Moves**

Top Amiga CD-ROM company Weird Science has moved to a new, larger premises in Leicester. A new showroom which should be ready in mid July, will be displaying Wierd Sciences large range of CD-ROMs, but will also be extending operations into games and hardware. The showroom will be stocking Vulcan and Guildhall titles, and high-end hardware, including Micronik Towers and phase 5 accelerators. Weird Science has told us that if it can source Amiga motherboards it will sell com plete towered up Amiga packages. The new address is Weird Science, Q House, Troon Way Business Pk, Humberstone Lane, Leicester LE4 9HA. Tel: 0116-2340682.

# Index Information Announce New Amigas

Index Information have announced the imminent release of a new Amiga computer system, with more to come by Christmas. The first product is the Access, based on a redesign of the A1200 motherboard. The product lines to follow are the Connect, an OEM motherboard, and the InsideOut, a next generation Amiga system.

Index Information are a British company who specialise in multi-media display solutions and Point Of Sale equipment. They produced the seven screen multimedia show on board the HMS Belfast and the innovative interactive displays were used in the London Transport Museum.

London Intelligent versioned to ship a POS Finel Of Selel and multi-timedia display platform to TS ship and multi-timedia display platform to replace their very successful CD32 based system. Improve successful CD32 based system. Improve difficiency in the circuit design has enabled them to shirts of selection of the system of the selection of t

Index will be supplying a half height case version with floopy drive and CD-ROM. The CD-ROM can optionally be replaced with a hard drive or the floopy drive with an LS120, a 120Mb rival. to the IOMEGA Zip, which can be used



as a removable hard drive. Other features include 15 pin VSA out-put, real time clock, 2 or 8 Mb of Psst RAM, a built in sound sampler, and an ISA slot which can be supplied with a modem or an Ethernet card. The machine uses standard A1200 ROMs, but also has a 256k Flash ROM which stores the CD-ROM drivers and can be updated to cover any future uporage.

Even more interesting is the legan more interesting is the property of the future. They are planning launches by the end of the year for their mid and high-end systems, the Connect and the InsideOut. Connect is and 7st syle motherboard which fits straight into standard PC cases and is entirely Ad000 compatible. It will be supplied to OEM dealers.

duce custom build Amigas. Systems should start at £6-700. Index are tight-lipped about the Inside Out, but see the specs below. The only additional information given was that when they showed Gateway

2000 what they had after the WOA press conference, a lot of jaws dropped. Index plan to release the InsideOut as a complete system at around £1000. Significantly, Index are very nearly the second company to gain an Amiga

# Specifications

Connect:

Baby AT size motherboard
.44000 compatible
.CPU slot for any '040 or
'060 processor
.2Mb Chip RAM and up to
.128Mb Fast
.4 x Zorro Ill slots, 4 x ISA slots
.1 x Amiga video slot
.4 lDE device support
.CD-ROM audio input and mixer

InsideOut:
Compatible with all
Workbench apps
RISC processor performance
Full retarg to 1280 x 1024 24
bit display
Optional 3D Accelerator card
Fully implemented PCI bus
with wide software support

•TCP/IP and NetBIOS

# **News in Brief**

# Epic/Islona label Expansion

Epic's move into the games market continues at a pace. They have announced that they'll be handling re-releases of XP8 and Pinball Prelude at under £10. A CD version of the Sid Meier classic Civilization is also in the pipeline, produced in co-operation with Guildhall leisure. Alien F1 is continuing development under the new title F1 Challenge, and although Italian Author Paolo Cattani is doing national service, Epic is confident this won't cause a major delay. Epic has also told us that it's signed exclusive distribution deals for Vendetta and Trapped 1 Adventure game Sixth Sense Investigators nears release and Epic say there are more games on the way than they can keep track of.

Epic are making releases on the productivity front too. Products for the near future are EVP, a 'rawe doom oaker ['with 50Hz frame by frame image manipulation and AVId Pro, a complete AVI animation player with a suite of animation conversion utilities. They will also be releasing some multi CD sets such as the awesomely titled 25,000 photographs. Call Epic Marketing for more details on 5000 131 486.

## Championship Manager 2? Eidos Interactive have

promised us that Championship Manager 2 is almost complete and release is imminent. Although Eldos haven't shown any great commitment to the Amiga market and have said that they've no further plans to support the Amiga, the team which is producing CMZ are pushing to complete the project so they can begin development of the new project Championship Manager All-stars.

index Information

COMING SOON TO CU AMIGA MAGAZINE... SEE PAGE 18!





# **Stateside News**

# PhonePak Two North American Comeback Shows Coming Up

and purchased the rights to the PhonePak software. The company's first priority will be to provide support and upgrades to existing

with a monstrous number of little chips on it and a couple of innocent-looking phone jacks, which when paired with some unattractive but functional software gave an inexpensive but professionalseeming office phone networking system. They are still traded in the Amiga second hand market, though they've been out of production for quite some time.

had their own problems and went out of business. Revived a couple of years ago, GVP has not 'got around' to restarting PhonePak hardware and software had differ-

return in its old form because of

OH 43560 USA or at http://members.aol.com/on8142 Breaking what looked to be a yeargroups have announced plans to bring several well-known Amiga events back to North America.

The Amiga Central Ohio Network (AMICON) is bringing back the Midwest Amiga Exposition. Last year, the MAE brought a brisk crowd from across

the American Midwest and East, featuring Nova Design, Nether dealers and user group exhibitors as well. This year's show is organisers promising that it will be even bigger than last year's event.

ing an old tradition back to its city. by AMUSE members, is being revived and will be the first large Amiga show in New York since Commodore cancelled the WOA New York show in 1994 shortly before its bankruptcy. The group says that it's working with other

26th and rumours indicate that a For more information on the MAE, contact AMICON: PO Box

or see the web site at www.amicon.org. For more information on AmiExpo, contact Livingston Hinckley at 001 212-963-9399 or see the show web site at bers/amigaty

AMIGA AmiExpo

# Scientific Amigan Returns Pigford has purchased the

Robert B. Pigford, or as he's known in the US, Dr. Frankenstein, has revived Scientific Amigan.

SA's newsletter informed on science and technology related applications of the Amiga computer worldwide. It had a small but well-educated following, but after 18 months of publication, it folded in mid-1995, a result of the failure of Amigas used in its production Amiga marketplace of the time.

rights and the back library of SA and is reviving the resource to be published online, Pigford will still provide hard copies of back issues

coming resources as well For reprint inquiries, contact RBProductions at 835 West Warner Road, Suite 101-251 Gilbert AZ 85233 USA, or check net.com/~cyrano/sciam/index.html

# Argent Ethernet

Digital Lightyear Technologies says it's entering prototype stage announced at the March St. Louis Amiga '97 show.

It wanted to create a low-cost, fully compatible Amiga Ethernet card and to make it more afford-DLT is currently projecting a price of US\$100, considerably less than current competing products. An A1200 version which would reside on the suddenly popular clock

header has also been considered fig card, perfectly suited for any

in-house design, DLT is calling upon former VIScorp software engineer Jim Goodnow, who also

taking inquiries from dealers with September being the optimistic E, Edgewood WA, 98372 USA, or

# Microcode Product Changes testing and will offer a new fea-Macintosh PowerPC source code

for PCx and Emplant, has made some publications, Microcode is delaying its Apple II and Atari 8-bit lation has been scrapped in favour although it does require greater resources to run. Target machines With no projected release date for the new Atari/Apple bundle, Drew blames poor consumer response

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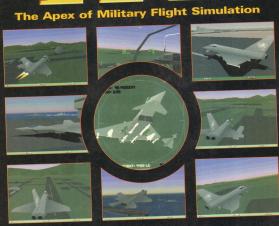




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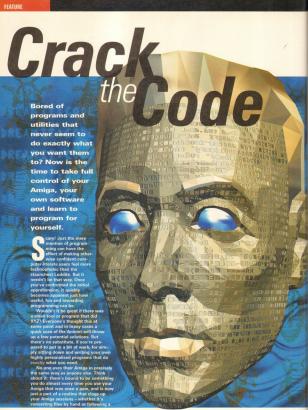
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Polar opposite the Masons Pub.

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#### Shareware works

Do it yourself distribution works well with Amiga software. You would have a hard time of it trying to sell an Amiga application to a major conventional-style software distributor for sale in high street shops, but that needn't put you off coding a masterpiece. Shareware has been according to the street of th

amateurs and professionals alike. The shareware concept is simple and effective. First of all you create your program. If it's sufficiently advanced to be of use to others, you can upload it to Aminet or distribute it via other Internet means or via shareware libraries. With this first release, you include some text that requests a small registration fee (typically between £10 and £20) from anyone who uses the program on a regular basis. In return, the user will be logged as a registered user and, for example, become entitled to future updates to the program for absolutely no charge.

The terms of the registration can differ depending on the nature of the program, the author's wishes and so on, but



registration document that is included with the program. For example, if a major rewrite of the program is pencilled in for some time in the future, the author may deem that the initial registration only covers updates from, say, version 1.0 through to 2.5. On the whole though, registration of a program should be valid for the whole course of the program's develop-

It's also quite common for the freely redistributable 'version to have limitations such as a lack of ability to save out projects, or perhaps a shortened list of features. These would be re-instated on registration. This tends to be the case with more advanced programs, whereas often a version 1.0 release will have all of its features intact from the outset. Either way, registration. in the near or immediate future. Another method is to use Aminet and so on to distribute an almost totally functional program which requires a small personalised 'key file' which is sent to the users on receipt of the registration fee.

In order to get the registrations rolling in, you first need a good program. This could be anything from a tiny utility to a major application, although registrations are more likely to come from well written, useful applications. Don't expect to make a living from people registering your Clock-on-the-Workbench type creations. It is possible to make substantial pocket money or even scrape a living from writing shareware, but don't expect an overnight rags-to-riches scenario. The best way to approach it is as a hobby, which might even pay for itself in time.



▲ Gloom: Acid Software's 3D gorefest in Blitz Basic, and runs fast on 030s, can be linked up and shows what even simple programming languages can do.

laborious start-up and configuration routine each time you begin a new project – a few ARexx scripts could have the whole thing done for you at the simple touch of a button.

Or maybe you're forced to use (gulp) another platform' to perform certain tasks alongside your Amiga, just because there's no Amiga just because there's no Amiga software that does the job. A nice bit of C code should sort that out. Perhaps you really need a program that interfaces directly with a bit of generic hardware that never yot any Amiga software support. Hell, you might just want to write the next 'faller app' or port Monkey

Island III to run on your Amiga. No-one were said programming was easy, but you can do it if you have the urpe. Just look at the size of the Amine storker, creaking under the strain of Gigabytes of software coded by Amiga users from around the globe, proof that programming is not the preserve of the rockst scientist. In fact, the ability to program your Amiga in all kinds of vwys, at all different levels, is one of the unique aspects that makes this some so without Nyon on earth should you

#### Genesis

It's encouraging to remember that all of these people currently banging out everything from small utilities to major applications and games started out knowing absolutely nothing about programming. Maybe that's where you're at now, or maybe you've had some previous experience, in which case, you've already got a head start.

But what is it that attracts people to get their head down and learn how to program their computer? The main five rea-

#### 1. Creativity

You are only limited by your imagination in what you can construct. In the extreme, a

program can be considered to be a form of crt. especially as each program is individually pieced together. Just as a skilled soulpier can fashion masterpieces from things like garden weste and dead and the control of the control

#### 2. Helping others

There are many social rewards in sharing your knowledge, expertise and even your code. This is probably the main reason



Get stuck in Jump straight to page 80 now for the start of our tutorial on C programming for the Amiga in conjunction with this month's cover mounted Storm C compiler.

▲ Here's DrawStudio: a typical mple of an Amiga application that was proammed in C. There are 100s of top programs that are coded in this versatile

language.



why so many people co-operate to make Aminet the massive success it is. Another benefit from interaction with your peers (all programmers are equal!) is the competition it creates. To take a concrete example, the current rivalry in the world of web browsers brings huge advantages to everyone involved. AWeb, IBrowse and Voyager have been trying to trump each other in the features stakes for a while now. This has rapidly increased the speed of development of these tools and forced them to be aggressively priced. But it's far from over: none of them

## 3. The challenge

are extremely complex, so. However, it is often the case that the main making that solution efficient: it must be fast and must make sparing use of limited resources

such as memory and disk space. But more often than not, these time and space constraints are contradic-

and, simultaneously, it is the major obstacle. The design and implementation of efficient (and correct!) algorithms is therefore programming, Luckily, human nature is such that many people thrive on the most your code, then for many, it's probably not

even worth the effort

#### 4. Earning a crust

Of course, it would be foolish to omit the profession in computing can be a simple extension of a hobby, or it can be something for which you train for many years. But, unless you're really brilliant, prolific or lucky, you're unlikely to make a fantastic living from distributing your products as ing a niche in the market would give you a definite edge but, at the end of the day, shareware ought to be regarded as a

So it's the commercial market which many jobs on offer, that cover an astonishing range of salaries and benefits. The need for various programming expertise seems to be increasing at an alarming rate, which is not that surprising considering how heavily we rely on computers plexity and speed of the systems that we therefore in demand, across a wide variety of expertise and experience. But be warned. Many programmers would say

#### Which language?

There are many different computer programming languages, so it's important you pick the right one for your specific requirements. For your specific requirements. For now, we'll forget the likes of Pascal, Cobol, Fortran, Prolog, Lisp, trate on those most relevant to Amiga programmers. Take a little look at the panel elsewhere in this feature for an overview of the currently in-vogue Internet related pro-gramming languages.

Difficulty: easy Good for: simple games
Bad for: OS-compliant applications,

Compiler status: development has

now ceased Notes: AMOS has a lot going for it, such as built-in scrolling and sprite



commands and it's very easy to learn. However, writing non-g applications can be a pain as AMOS likes to disable the Amiga's operating system, although an intuition extension is available from the pub-Examples: Valhalla, Dogfight (see cover disks)

Difficulty: hard Good for: applications and games Bad for: nothing Compiler status: continual rolling

tes: C is a great all-rounder and is also very portable. C is widely used outside of the Amiga scene used outside of the Amiga sce which is a good thing if you w to take your programming skills into the workplace or to convert your Amiga creations for use on

other platforms Examples: Most Amiga applications

Amiga E: culty: medium

Good for: applications Compiler status: development has you're only interested in programming for your Amiga, E is a good choice, as it's an Amiga-si cific language. It's similar to C, but is simpler and easier to get the hang of. Cover-mounted on December 1995 CU Amiga with a

Examples: Early Photogenics and Image Studio Difficulty: medium Good for: lots of games and some

tutorial manual



ming solely for the money, then you're never going to be that good, or that happy

#### 5. Contro

he least often acknowledged reason for sang up programming is also one of the dates sides of human nature; the need to eart control. Even something as inert and felless as a computer is a reasonable tarpet for dominance. The fact that the display can be animated in various ways and the machine can mimic some of surolar machine can mimic some of surbust machine can mimic some of surbust machine can be sufficiently to the machine can be sufficiently to the machine can be sufficiently to the surplay of the

### But is it fun?

has been remarked that programming is emost fun you can have with your debtes on (but this in no way suggests at you have to wear clothes.) Okay, and a stretching it a bit, we admit. One the control of the control of

Unfortunately there are always going to be a lot of things we never discover to be

enjoyable, simply because we don't try them. Parachuting might well be a right laugh, but not many of us are actively considering jumping out of an aeroplane at 30,000 feet, with just a patchwork of old silk shirts between us and a very depressing (or compressing) end. Pogramming is similar (but it's also a lot less dangerous): we can't know it's fun unless we are genuinely curious enough to want to try it out for ourselven.

out for ourseves.

Exclusions is another driving force in a Exclusion is another driving force in a Exclusion in programming. Because it often takes a fairly shapeless form, this kind of work is often regarded as lide hacking. It's possible to derive a lot of enjoyment from just driving around, admiring the views, so it's fairly safe to say that this can be fur. There is a fliption of the same of the same of the same tigative skills is widely publicised; newspapers often carry stories on some backer compromising a network's security or bypassing other constraints.

#### Where to start

If you've never considered programming before and you think it sounds interesting then you're lucky, because you're already one step ahead of a lot of people. The Amiga is arguably the best computer you could use for programming. It has a small

and fast Operating System that makes few demands on memory and disk space, and has for more than a decade contained features that are only now becoming widely adopted (such as pre-emptive multitasking and phiet orientation)

The Amiga is also blessed with many programming languages, from low-level Assembly, through C and C++, to the higher-level Oberon. There are also Amiga-



Amatory: the heavy demands of demo programming today requires the use of a sophisticated language. Unfortunately, AMOS programmers need not apply.

simpler applications
Bad for: complex applications
Compiler status: development has
now ceased
Notes: Blitz Basic aimed to combine
the simplicity of Basic with ready
made commands to handle graphics

the simplicity of Basic with ready and commands to handle graphics at speeds required by arcade sames. It achieved this, and has been the basis for some classic games, such as Gloom and Skidmarks. It's a bit like AMOS, but done properly Example: Gloom, Skidmarks

## Difficulty

Good for: batch operations and remote control of applications Bad for: stand alone programs Compiler status: n/a Notes: ARexx is a different kind of programming language, designed to



interact with other applications that are running. ARexx can be used to remotely control applications to carry out tasks that would otherwise require long, laborious and repetitive mouse clicks (such as batch picture file conversion for

example).
You'll notice from this little round-up that C comes out on top, which is why we've cover mounted the Storm C compiler on this cover of the compiler on the sey you shouldn't use any of the others. You should pick which ever is going to fit your particular needs Examples: ProPage Genies, Personal Paint macros

Assembly
Difficulty: hard
Good for: fast arcade games and



Bad for: Nothing in particular Compiler status: development now

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Notes: Assembly language is a the
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are heat done with assembler.
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brain and pattinese by the gallon to
graphics; PD demos and the
majority of games



specific languages like the excellent. Amigis E and the nevt useful Afrex. The cannot starting point for beginners is usually some kind of BASIC (AMOS) as usually some kind of BASIC (AMOS) as to another the starting of BASIC (AMOS) as choices). but the most popular language generally is C (popular Amigis compilers include SASIC, DIGs. CGC and the reliance by new Storm CI. So previeter is C that the official Amigia system guides the PORTIGIAL Kernel Reference Manuals) are biased stropply towards in strongly towards in the strongly the strongly towards in the strongly towards in the strongly the

#### **Benefits**

You could do much worse than investing your time learning C since it is practically the de-facto standard in industry, as well as the Amiga community. Skills learned during hobbyist programming with your Amiga in C are likely to be of great benefit should you consider a career in computing, despite the dominance of those PC things. Knowledge of C will also serve you well in 'upgrading' to C++ and Java. which are starting to chip away at C's dominance. In fact, support for C++ is usually included with your C compiler (e.g. GCC and Storm C). Unfortunately, there is no complete Amiga implementation of Java available yet, but this situation is likely to change very soon, and we'll likely be inundated with different versions!

Many colleges and night schools do courses in C. and there are lots of very good books on the subject. But, once you've got the core concepts under your belt there's no substitute for experience and perseverance. Write as many different kinds of program as you can, and practice of the program as you can, and practice of the company of the program of the control of the company of the control of the company of the company of the control of the company of the company of the company of the your programs (debugging) is a black art practiced by all programmers. Being good

#### C vs. C++

People seem to think that all those + symbols mean that C++ is better than C and they should learn that instead. Not true, C++ derives from C, so learning C first helps. What's more C++ has higher system overheads and is harder to program. The most important difference is the support in C++ for exception handling and Object Oriented Programming, a subject beyond the scope of this feature. Put very simply, OOP drops the linear structure of traditional programming in favour of a system of separate code 'objects' which are examined in parallel, widely used in expert systems and modular control systems software. One bonus is that C++ coders can earn a lot of money. We strongly advise getting your head around C before progressing to C++.

## Coding for Internet



Now there's a whole new chapter in the programming story; the Internet. The easiest of all Internet programming languages is Hyper Text Mark-up Language, or HTML. If the system used to construct world wide web sites from the basic building blocks for fext the basic building blocks of text quite simple and easy to grasp, and there's currently quite a demand for HTML coders as the

at debugging is sometimes more important than creating the code in the first place, and it is debugging that will ultimately teach you more about programming than anything else.

#### Use resource, Luke

The great thing about having a huge repository like Aminet is that you're almost certain to find tools and even sources that will help you with any project you choose to work on. For instance, there are a number of GUI builders which allow you to visually create a GUI. Coding a GUI by hand is instructive the first few times you do it, but after a while it becomes a real chore. Thanks to Jaba Development you can take much of the pain away and draw your GUI using a program called GadToolBox (which is giftware: your only obligation is to send the author a gift if you like it or use it regularly). There are other such GUI builders available, but GadToolBox is often recommended and suits most basic needs.

Then there's the Amiga's shared libraries. These are collections of useful routines that many different programs can use. For instance, the iff.library contains routines that greatly simplify the loading and saving of IFF pictures. Why go to the bother of writing the code yourself when

world and his wife scrambles to try to make their online presence more prominent.

Java script is taking over on the Internet. Vastly more advanced than HTML, it is actually possible to program applications with it, and it makes up the core of many interactive web sites. Although there is no Java 'virtual machine' to run Java on the Amiga yet, two rivals are due this summer.

you can just make use of some other person's fine efforts?

Another massive resource that is easy to use if you are connected to the nearly use of your connected to the reservences. John and extremely beneficial is other users' experiences. John and extremely beneficial is other users' experiences, John and additional and the property of the contact with thousands of like-mining, and they'll know consider the property of the larger poth-lose. After all, learning from experience (our own or other people's) is allegedy what sets us apart Jason Hulance.

#### Further reading

Our new programming tutorial will be moving quickly, and we want to concentrate on Amiga specific information which is hard to come by. We recommend you get a general C reference work such as Kernighan & Ritchie's The C Programming Language, widely regarded as the C bible, or Fosch Yourself C in 21 Days published by Sams Publishing

Evetech's Summer Sizzlers Accelerators? Forget '030/50's - get 3 x the power for £169.95! - '040/ 25WHz (19 MIPS) £169.95, '060/50MHz £349.95; Forget mem boards! -- '030/25MHz/MMU/FPU £69.95, 33Mhz/MMU/FPU £84.95; New Eyetech EZ-Tower £119.95; 16 speed CDPlus system £199.95; High Market Market Programme A 1200 serial port £49.95; 14.4K modems from £24.95; SX32 Mk2 £159.95; SX32Pro from £269.95

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A buffered IDE interface is essential to avoid overloading of the A1200's IDE port when adding extra devices" - John Kennedy - Amiga Format - July 1997

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purchase

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More powerful Amigas are coming. The 68030 is pretty standard and PowerPC is on the way. So where are all the power games?

yst is coming. Quake looks likely. We even played Duke huse 'em 3D on an Amiga the other day. Compared to the dross we have been seeing level. There are titles on the horizon, some of them Amiga specific, some of them conversions, which could make the Amiga.

a leading games platform again.

The new enthusiasm in the games market has raised a lot of hopes, but has also caused an enormous amount of confusion. Wild stories are being thrown about, and no-one seems to have a clear idea of what is possible and what is realistic. The first thing you have to know is that stock machines are unlikely to be well catered.

\$ k



▲ Duke Nuke 'em on ShapeShifter plays very nicely with a graphics card and a 68860.

for in the future. It may come as something of a shock to many that the A1200, not just the A500, will be considered too low end to be concerned with by software houses. There is a tendency in the Amiga resistance to this move from certain quarters. However, as the public taste for ple want to play titles which do a lot more. In the space of time since the arrival of the A1200, PC users have had to upgrade con tinually to play games. When the A1200 first went on sale it was competing with PC systems with a 386/16 CPU and VGA 486 chips running at up to 50MHz with hard drives, SVGA cards and sometimes even CD-ROM drives. These were the PC equivalent of an A4000 with a graphics card at the time, yet those once aspirational machines are now two or three gen erations out of date. That the Amiga is the rest of the world in development is a testament to the revolutionary nature of the hardware.

#### The truth

You will have fleated a lot of reasons for the Amigra's decline as a garnery platform. The stuth is quite simple, it was a matter of such a superior of the su



A Settlers 2 - currently fifth on the ClickBOOM wish list and ideal for Amiga conversion.

designed, a lot of thought was put into hardware scrolling, sprites, copper and so wanted to write a horizontal shoot 'em up smooth you could put it in a car chase and given to 3D hardware for the simple reawas a viable concept for a games machine cum home computer in the near future.

Although AGA is capable of higher resolutions and more colours, it retains the playfield structure most suited for the type of scrolling games which have largely Producing 3D games, even on an accelerated A1200, is hard work, and in the case of some of the most up to date games it's wanted to be seen to be on the cutting edge of games design and that meant crewhich most people had at the time. Rapidly any game for the Amiga started to look dated, even if it still played like a

dream, and everyone was rushing

▲ Monkey Island III - next stop Amiga?

into the PC and super console market.

# Super consoles

The other thing that has happened in the A1200 was released, the console kings These were both inferior to the A1200 in games and appealed to those who wanted PlayStation, the Sega Safurn and now the Nintendo 64. These use RISC CPUs more powerful than the best '060, and contain graphics chipsets capable of doing ultra fast 3D rendering, hardware texture mapping and so on. The Nintendo 64 actually contains a graphics chip based on the rendering engine used in the Silicon Graphics

The companies consoles only run games which contain a small piece of code at the beginning, which the hardware manufacturers retain all rights to. This gives

them a lot of control over the software publishers. For example, all Playstation games have to be mastered by Sony in their own CD duplication factory in Austria. This allows the console manufacturers lots of control over their market, and this is the reason why consoles are so cheap. The hardware is put out at next to nothing or even a loss so that they can sell more of the real profit maker, the software. This kind of approach has meant that £100 consoles

are able to do as much as all but the most



expensive PCs. Well if that's the case then what kind of chance does the poor old Amiga have then?

## Power gaming

For a while we have been seeing a lot of Amiga games so poor that they would have been laughed at 10 years ago. Without the big names of the games market producing Amiga titles, a lot of cottage industry games companies have sprung up. Some of them have tried to keep the flame alive, others have been making money from a desperate market by selling games as commercial products which are

barely good enough to impress as PD. Now things are beginning to change, and the average Amiga is now capable of doing a lot more.

For a very long time it has been assumed by the games industry that all Amiga gamers were running a 1Mb OCS machine with no hard drive. Nowadays the average gamer is running an '030, AGA machine with 6Mb and a CD-ROM drive. There are even gamers out there who have got themselves '060 processors and graphics cards to play things like Alien Breed 3D, Trapped 2 or XTR in maximum resolution modes and at decent speeds. These kinds of systems make conversions of current games much more feasible. Even the top of the



line Amigas with graphic cards aren't up to doing the most demanding 3D games, but whole new world of gaming possibilities is opened up. There isn't a game on any platpowerful as the bottom of the line Amigas will still have to cope with the drag factor of the pretty but slow AGA Amiga couldn't do, and give it a graphics

card and you'll have a games monster, With Amiga International making a commitment to bring future Amiga computers a degree of industry standard hardware computability, we can expect future Amigas to sport PCI slots. PCI is the PC cheaper than Zorro. For the cost of a Matrox Millennium with 4Mb of video RAM, capable of resolutions of 1600 by 1200 pixels at 80hz plus, and an Orchid Righteous 3D card which can render around a million texture mapped polygons

per second. Combine display cards like this, the huge raw power of PowerPC, the efficiency of Amigas and the ingenuity of Amiga coders and there will be nothing to touch the Amiga as a games machine

# Amiga needs you!

There is of course one major proviso. No amount of hardware is going to give you a top games machine if no-one is writing games for it. We are at last seeing a light at the end of the tunnel with some form of development in this direction. Sadeness software's move into the games market looks like a promising starting point with Amiga back on the adventure gaming require higher specification machines to run on. Look at the extended previews section this month or the preview special in the June issue and you'll see for yourself. However, if we want the Amiga to be up there with the best, it will have to run the best software. It will take a lot to persuade the big game companies to return to the Amiga, but with the advent of

of Gateway 2000 this no longer looks like an impossible dream - but if it comes about it is going to have to be lead by the

gaming public, and that means you. The simple truth is that Amiga games do not sell, and the big games companies are convinced that this will never change. They can be proved wrong, but it's up to you. For a start, go to your local games shop and buy a game. WormsDC is the greatest game ever on the Amiga, yet it has sold in pitifully small numbers. If you haven't bought it yet, why not rush out doesn't stock Amiga products don't just walk out, tell them that you want to buy Amiga games. If you don't say something they won't know there is any demand. Write or phone games companies who have dropped the Amiga and ask them expect ID software to write Quake 2 for the Amiga because until there is a significant PowerPC user base there are no Amiga users who could run it. Don't forget put in last issue either.

Andrew Korn



cartoon animation. A graphics card would make it run nicer, but would ru under AGA. 8Mb '030 should cope but '040 would be preferable.



down scrolling is just the sort of thing the Amiga does well. Predecessor Dune 2 ran on an A500. This one has more colour and detail. '030 and 6Mb RAM.



proved too much for the Sega Saturn. PowerPC would be needed for good speed. Could run lower detail on AGA or higher detail on a graphics card.



owerPC essential. Fast PPC could lake up for lack of 3D hardware, bi GA would be jerky – graphics card rould be pretty much indispensable



Tomb Raider: 3D graphics chip such as the S3 Virge on a Cybervision 64 would make this just about feasible on '060 and 6Mb, but PowerPC is yet again the best





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# PowerPL Is Coming!

Who wants a 68060? Everyone, it would seem. But one look at a machine running a PowerPC and you won't even give the '060 the time of day, let alone aspire to owning one.

nd you thought a 68060 was fast? Forget that. You'll be able to tile your bathroom with the things before long, and you know why? Because someone has had the audacity to develop a new range of chips series out of the water, sinking the

Pentium along the way, with performance in excess of 100 times that of a basic A1200. Poor old Motorola eh? Well actually you can save your tea and sympathy. because it's Motorola themselves (in a joint venture with IBM and Apple) who have done the deed with the PowerPC. So what's new? Another technological

advance comes along and makes the Amiga's core hardware look even more dated? No! Because this time the Amiga is right there, poised to take full advantage of it! While the official Amiga owners sit and ponder their next move, the forward thinking German Amiga peripheral developer phase 5 has taken the initiative and to the Amiga. By the time you read this, insanely fast 'PowerUp' PowerPC acellerators should already be available to buy for

68020/14 68838/58 68848/40 68060/50 Partines/80

Breaking the speed limit There's not enough room on these two pages to acurately show just how much faster the PowerPC is than the 68060

and Pentium chips. Turn the page for more!

Pentium/200 DEC Alpha/266 PPC 603±/200 PPC 684e/288 PPC 684e/258 The A3000 and A4000, while the first A1200 cards are due in August this year. A1500 and A2000 users will get theirs by

a disconnection of the control of th

#### Too fast for words

Itself to Imagine the scale of performance in the case of performance the 6800 series. We'd normally print after graph showing speed comparisons between various accelerators or CPUs, but its cases we've had to do something a state of the comparisons between various accelerators or CPUs but its case we've had to do something or with there are comparitive benchmark would be comparison to the comparison of t

So what of the PowerPC? Look, they go what of the PowerPC? Look, they go with over to the edge of the page – but that's not all. Turn the page and you'll see the 603e wraps around to a third page, the the 604 makes it to the end of this

instance! Are you getting the picture yet?
That's right, were talking senious speed
we – the kind of speed that laughs in the
view of the kind of speed that laughs in the
of realizine digital signal processing, and
states the dinner money of ultra-realistic
gital simulations. All those things you
hought you'll knight you'll knight you'll knight
would be the experiment properly with your
laucuite 3D rendering software, throwing
a lands of lighting effects and other
when the property with your
laucuite 3D rendering software, throwing
to week hours to fird you've got the campointing in the wrong direction. Full
well-steed quick renders' can now be
undered quick renders' can now be
undered out in a matter of seconds, entire

# Audio visual apps

With a PowerPC at the heart of your Amiga, a basic duplex sound card and some good software is all that's needed so perform realtime multi-track hard disk ado recording with on the fly digital effects and MIDI sequencing. There are all ands of uses the PowerPC can be put to, ut most impressive by far are those that.

# PowerPC options from phase 5

Currently phase 5 are the sole producers of PowerPC accelerators for the Amiga. Others are bound to follow their lead once they take off, but for now these are the PowerPC upgrade options currently available (prices exlude 680x0 CPUs). For further information about phase 5's PowerUp range, point a web browser at www.phaseS.6 or call their Frankfurt office on (00) 49 6117 838 787.



# BLIZ ARD





### Blizzard 603e Power Board

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Clock speed	
Companion CPU	50mHz 68030
Est. Performance	250 MIPs (approx
SpecFP95 rating	3.1 (approx
RAM	64Mb maximum
SIMMS	1 socket
SCSI	Fast SCSI I
Available	August 97
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Price	£299 + 68030 CPU
Blizzard 603+ Pe	ower Board
Compatible with	A1200
Clock speed	200mHz
	-50mHz 68040/68060
Est. Performance	280 MIPs (approx)
	3.5 (approx)
	64Mb maximum
	1 socket
	Fast SCSI II
	September 97
Price	£399 + 68030 CPU

#### Blizzard 2604 Power Board

Blizzard 2604 Power Board
Compatible withA1500/A2000
Clock speed150-200mHz
Companion CPU25-50mHz 68040/68060
Est. Performance350 MIPs (approx)
SpecFP95 rating7.1 (approx)
RAM128Mb maximum
SIMMS4 sockets
SCSIUltra wide
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#### vberstorm PF

Compatible withA3000/A4000(T)
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involve throwing graphics around the screen at high rates.

Visitors to the CU Amiga stand at the recent World of Amiga show witnessed what at first looked like a Workbench running a few animations, but further examination revealed this to be a modest example of what can be done when Workbench gets a kick up the backside from a PowerPC chip. The animation running in the backround was actually a full screen MPEG full motion video sequence being

#### PowerPC software

The following is a list of Amiga software that's currently being ported to native for the following is a list of Amiga software that are considered to the following the f

http://www.powerup.	base.org	
Product	Description	Developer
Reflections 4.0	3D rendering	Oberland (German only)
Cinema 4D	3D rendering	Maxon Computer
Isis	MPEG video player	Phase 5
CyberGraphX 3	Graphics RTG	Phase 5
CyberGL	3D OPenGL graphics API	Phase 5
Personal Paint 7	Paint/animation	Cloanto
ImageFX	Image processing	Nova Design
Alladin4D	3D rendering	Nova Design
Monument 3D	Video titler	ProDAD
Adorage	Animation effects	ProDAD
p-OS	Operating system	ProDAD
MPEGA	MPEG (L3) audio player	Stephane Tavenard
Art Effect	Paint/processing package	Haage and Partner
StormPowerASM	PowerPC assembler	Haage and Partner
Tornado3D	3D rendering	Haage and Partner
MYST	Adventure game	ClickBOOM!
Imagine 6.0	3D rendering	Impulse

decoded and displayed in real time, while fractals were blasted out in seconds in another window. Dig out an MPEG animation and an MPEG player from a recent CU Amiga cover CD and check how fast it works on your machine. You'll be lucky to get a frame a second, which is not surprising considering that each frame has to be decoded from the heavily compressed format that was developed from the JPG standard. The PowerPC demo of that was running at least 50 times faster.

How it works

680x0 with a PowerPC chip and expect the Amiga to deal with it. To get around this, phase 5's PowerUp cards have both a 680x0 CPU and a PowerPC chip onboard. When the Amiga is booted, the 680x0 is software is also started on boot-up. Everything continues as usual until you run some native PowerPC software. This would have some initial 680x0 code at the header that would tell the Amiga to hand over control to the PowerPC. From here on, the 680x0 would take a break and do nothing at all until control is handed back to it from the PowerPC.

to it not have overPC gets to work uniting its software, free to access and manipulate till, software, free to access and manipulate till Amigiga's memory as it sometimes of the control of the Amigiga's memory at a far quicker rate than a could be achieved by even a 68060, with the end result that PowerPC programs work much faster.

## Where's the catch?

ou might have spotted a title problem in that sequence. It's the bit where the 880x0 twiddles its thumbs while the PowerPC vowls only on native PowerPC code. This means that, the way things stand at the moment, you can only run 880x0 dortware, moture means that your SSXxX Workshench would freeze up when-yeary you started some

much for the Amiga's famous multi-tasking Operating System. In theory it would sound like a good dies to rapidly switch control between the 680x0 and PowelfP of to run both virtually in parallel, but the delays involved in the switch are too great and voucid be completed for the switch are too great and voucid be completed for the switch and voucid be completed with a switch and the delays of the switch and the switch and the Amiga's QS. Once that's available, wolf to kickstart and Workbench that run exclusively on the PowerPC.

sixely on the PowerPC.
Once you've got the native PowerPC OS, you can start integrating the old and the enew. Existing B600x software can then be handled by the PowerPC CPU running 6800x emulation and native software in harmony. Amiga International has stated that developing a PowerPC version of ArnigaOS is one of its main priorities, so with any luck that wort be to of a way.

# Serious about fun

PowerUp cards going to do for us? The first question of course, is whether you'll romps causing a stir on the PC and consoles. The answer is yes, but to match the performance of a decent PC or a PlayStation, a graphics card would still be required. Why? Because although the PowerPC could calculate and render the frames to memory easily enough, there's still not enough bandwidth from the slow AGA or ECS chip set to actually shovel the prepared graphics data into 'screen memthe form of a graphics card, such as the Picasso IV or phase 5's own Cybervision 3D. In fact, phase 5 are even planning to release a Cybervision card that plugs into

The bigger picture reveals that an ing PowerMac games. We predict that unofficial ports of PowerMac games will soon start appearing on the Net, although the recent failure of AmiQuake to get a full release may deter many potential DIY coders from taking the initiative. Even so, couple of years ago, there's a valuable software base ripe for conversion already. Whether we see a large scale move over to native Amiga PowerPC software publishing by the big names in the entertainment field remains to be seen. This will depend on how well phase 5 (and any other Amiga PowerPC hardware manufacturers) can penetrate the Amiga scene.

#### World of software Similar factors will determine whether we

There have been some concerns over the long erm availability of PPC chips but as Motorola, IBM and now, Thompson make them, this doesn't soem too worrying!





Mith Apple Macintosh already using PowerPC, there's a potential ready-made software base.

applications. The PowerMac is furnished with some brilliant software, such as poweful audio-visual packages. As with the games porting issue, it's possible that enterprising individuals will take it upon mis will be seen as nothing more than piracy without proper licencing from the

turns into a dead-end, because all of the Amiga's major software developers are new and forthcoming applications. Take a look at the panel on left for a list of those You can expect more to come in the near

Don't expect full native PowerPC applications right away. The first updates which authors are making available are plug-ins tasks. In any given CPU hungry program, microprocessing power. If those routines, such as a rendering module for a ray tracer, are moved to the PowerPC, virtually the full benefit of a total PowerPC port can be obtained. Until the software tools and his is likely to be the way it is initially used though it doesn't make a lot of

The latest exciting developments the Emplant and PCx emulators, has a development card and is working on creatthat emulates PowerMacs. Impulse is back on track with Imagine and promises a new PowerPC native version with unfeasibly fast rendering times, while the Canadian the public for which big time PC games Things are looking good for the Amiga. Very good indeed! Tony Horgan

# **Program and** Win a phase 5 owerUn!

CU Amiga Magazine in conjunction with Phase 5 digital products are proud to announce the Coding Competition. Non commercial Amiga programmers are invited to send in their own work either productivity application or games and the top 5 winning entries will each receive a Phase 5 PowerUp accelerator!

"This is a fantastic opportunity to bring some top quality amateur Amiga programmers and their software to the PowerPC platform,", says Wolf Deitrich, Managing Director of Phase 5 digital products. He goes on to say, "These programmers were the life blood of the Amiga before and they will be even more important to the PowerUp initiative. We're sure to see some great entries!

Depending on the model of Amiga they own, the winners may choose from an A3000/4000 Cyberstorm PPC or a A1200 Blizzard 603e. The catch is that the author must port the winning application to the PowerPC within a year or return the accelerator. They are free to alter the status of the ported software to shareware or commercial as they see fit. Sounds good to us!

The competition deadline is the 1st of October. The winner will be announced in the December issue and all entries will appear on the corresponding CD-ROM. That's it, get cracking and may the best coders win!

The specifications for the PowerPC accelerators are as follows; Cyberstorm PPC: A blistering 150Mhz PowerPC 604e, 4 SIMM sockets holding up to 128MB of RAM, integrated 68040/68060 (not supplied) and Ultra-wide SCSI-II

Blizzard 603: Blinding 175Mhz PowerPC 603e, integrated Fast SCSI-II and a socket for a 68030 (not supplied) with a SIMM socket to hold up to 64MB

# How to send in your entry:

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### My phone numberie-mail: ...

Category of application: ...

I hereby acknowledge that the material enclosed is of my own creation and/or I own the copyright to the material and grant CU Amiga Magazine the rights to enter this in the Coding Competition and to publish this material on a forthcoming cover CD-ROM.

Send your form to: Coding Competition, CU Amica Manazine, 37-39 Millharbour, Isle of Bous, London, E14 972 ited Kingdom. Alternatively, you may enter the above information in text form and upload it and the material to our FTP site. Please clearly say in the readme that it is a Coding Compo entry. Example: myapplication.readme myapplication.lha Internet FTP: ftp.cu-amiga.co.uk/submissions (login: cucd password: reader)

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nigas.

Andrew Korn continues to cast a critical eye over the rebirth of Amiga gaming with a look at some of

the wonders which await, and a look at a couple of the latest offerings.

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# **Previews**

# **Foundation**

🔳 Due for release: November 🔳 Developer: Paul Burkey

■ Distributor: Sadeness Software © 01263 722169



CD-ROMs, are moving into the games mar-Burkey with them.

Sometimes being an Amiga owner just isn't easy. How many times over the past few years have we had the carrot of a gem of a game dangled under our collective noses, only then to have it whipped away for no apparent reason? Settlers 2. Command And Conquer, Warcraft, The list is depressingly long. Isn't it about that not only is the Amiga equal



wargames, but in some cases it's tic Paul Burkey has set out to do. and at the moment it looks like he's doing quite a good job of it. You may have seen Paul's work

ware release Sneech, but he is real project, which began life last summer, after Paul had dabbled with a Settlers 2 clone, It was destined to be nothing more than an experiment - just a test to see months holiday in South America and a couple of weeks playing Conquer on a friend's PC, and needed to create what could well be the ultimate in god games.



True, it does have a lot in com-Megalomania and Settlers. You till the land and, erm, cash regis-



ter the seas to create resources for your key part of this game

and the thing that sets it more in the league of Warcraft, is the combat. If you've never sat down with Command And Conquer, then you won't know how incredi gent orders to individual units, as able to jump in and control a charoffensive if you will.

From the screenshots, and the early demo version currently doing the rounds, Paul looks like he has taken the best parts of all these games, and blended them man says, what he wants to do is to increase his potential market people who wouldn't

normally ever think of game. That would take in the Worms audience, the arcade playmore serious strategists. That's where the ability to step in and take direct control over units comes in. That, plus a plethora of tutorial levels. hints boxes and other gadgets designed to make the game as

easy to get into as possible. Link 'em up

want to do, especially when you consider that as well as a serial link between machines to make the game a little more exciting. ing a four player TCP server, to allow multiplay over the Net! He may even be able to expand it to





include eight simultaneous players, but this will only be included

if time constraints allow. The game has only really been in serious development since November of last year, and is cur-

ask me how they can be plete the game around November feat when you consider that he's work-4Mb of Fast RAM.

Arguably the game, once released in full, could stand as a wonderful of the species. Yes, live the bedroom programmer!

release around November 97. If http://www.sadeness.demon.co.uk for more information, and keep review in a couple of months. Tony Dillon

## Golem

- Due for release: Autumn
- Developer: Underground Software
- E-mail: ungrosft@mbox.vol.it





faster and smoother than MPEG (not difficult), and will apparent by run quite happily on a non-expanded and generally nonenhanced A12001 By creating a system that

can jump to any frame of the video instantly, without any loss of image quality, they may well have solved the age old probem of 'how to make a video interactive'. Mind you, you will need a 6x speed CD-ROM drive to be able to run it. but given the cost of

The game itself (oh yes, let us not forget the game), tells the tale of the Golem project, in the year 4096. The Earth is being enslaved by the Biotech droids, and only a certain Professor Meglon can help save the world by unleashing his own robot killing machine – name-



ly, you. So, from that point, you control your main character through some gloriously rendered sequences that promise to be a little more interactive than

attempt, Dragon's Lair.
All the rendered animations are looking
pretty spectacular at

unfortunately these screenshots only do partial justice to the look of the game. We'll have a more in-



depth look at this movie-size production in a future issue.

## **Olofight**

- Release: Early autumn
   Developers: The Real Ologram
- E-mail: ologram@agarde.it

streetinghter in the second and the second and those powers at seams with defed leave been attent the ultimate fighting same, and admittedly there have been some good ones. Unfortunately, the world got so waped up in Streetifyhet 2, that everyone seemed to forget originatily for a noment and speer all their time making their garnes slook as concert and speer all their time staking their garnes fook as in the state of the second that the state of the second that the state of titl), have left all that behind and made

as original a beat-'em-up as they

things the Amiga is good at. Just

have a look at the role call of sta-



frames of animation just for the ten fighters in the game, who are standing on a 3D parallax floor with objects they can move in front of and behind freely. There are ten special moves for each of the fighters, along with all their usual moves. The game runs in mode, with over 2000 colours amode, with over 2000 colours of the graphs are the graphics are rendered and cast realistic shadows. I could go cast realistic shadows.

on, but there just isn't the space.
A playable demo will be available soon, and the finished game will follow shortly after, so dust down your shuriken and start buffing your nunchaku now!
■
Tony Dillon





Mafield: Leg ups and legs flare. Now you can kick people in the HAMEs

## **Trapped 2**

- Due for release: Mid summer
- Developer: Oxyron
- Distributor: Islona © 0500 131 486

he PC hardware marweit is expanding at a frightening rate. Faster and graphic cards are being sratched up in their hundreds of thousands. Machines are being upgraded more times than Keanu Reeves booking Club Class, and the minimum specifications for even entry level machines are currently going through the roof.

Due to the time needed to re-Due to the time needed some work on the highest specification PCs and are already aiming very serior year's batch of new product at a minimum 200Miz Pentium specification. We have to ask why. The answer, my friends, is a simple one. The world has realised that processing power makes for fantastic gaming entertainment, and Trapped 2 looks like it could well be the result of that same, high spec rationale. Forget Doom. That clunky old pile of tosh, with its two dimensional bad

guys and poor lighting is about as convincing as 3D Monster Maze on the ZXB1. What we need is a mix of Quake, Descent and Duke Nukem 3D.1 want real lighting effects, with lens flare, reflective surfaces and realistic shadows. I want animated textures, with realistic water in realistic rivers, and mirrors I can

ed textures, with realistic water in realistic rivers, and mirrors I can walk up to and grin at myself before blowing someone halfway to next Wednesday. I crave real 3D bad guys, ones that can turn and be viewed from all angles,



and 3D weapons with real substance, so I can feel the blade going all the way through to the spine, catching between vertebrae, so that I need to place my boot against my opponent's chest if I am to stand any chance of get

ting it out again... Phew, er can I have a lie down now? So here we have Trapped 2, a first person adventure game that looks like it's going to take all the best parts from Quake and Duke home grown Amiga ingenuity. The seven level demo we have is just a taster of what's to come, and even as early as it is at the moment, we have to say that we are most impressed. Atmospheric lighting and sound effects, an impressive frame rate (if you have a fast enough machine, naturally) and, probably most importantly, a healthy dose of originality.

We'll have the full thing for your perusal next month. ■

Tony Dillon









## Zone 99

- Release: Mid summer
- Developers: Aurora Works
- E-mail: info@auroraworks.com

on't you just love game titles that tell you everything you need to know? Total Carnage, Formula One Grand Prix — there can be no mistaking what these games are about. Enter Zone 99, a new multi-player puzzler come shoot 'em up from Aurora Works, a game with 99 eyeks,' or Zones. The premise of

the game is quite simple: solve the puzzles that are thrown at you

each level, either with or against a friend, and try to find your way through the enormous maze of zones to get to the last level. What could be easier than that? The game approach is equally

a simple. A straightforward topdown view and full usage of expanded graphics cards and other system improvements means the emphasis is purely on speed, with the game clocking up



to 49 frames per second at peak points – you are guaranteed a frantic bit of blasting here! To add to the atmosphere, no less than six different musicians have been brought in to provide the sound-track and effects for the game—surely the largest audio team on any Amiga title yet! Look out for a full roview next issue.

## Vendetta 2175

### ■ Price: £19.99 ■ Publisher: Islona ② 0500 131 486 ■ Developer: Vortex Design

Take a classic arcade game format. Add AGA graphics. Render all the bad guys and throw in a 3D tunnel sequence between levels and what do you have? Unfortunately nothing as good as Super Stardust....

about this game just feels so haphazard that you can't help but conclude that the programmers

faith in the Amiga's abilities and owners nerally upgrade their machines in order to take advantage of the latest technology. It therefore follows that there is no real reason why many classic Amiga games can't be updated to take into improved in recent years.

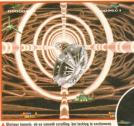
ome people in this

classic example of how to take a classic, familiar game style and add absolutely nothing to it bar a couple of demo tricks that have been around for years. First of all, though, let me tell

you about the game. In essence it's a horizontally scrolling shoot 'em up that has you, and a friend should you want to subject them to this, flying lone fighters against attacking waves of enemy of the sky and collecting little golden disks to improve your ships' capabilities. Along the way the action occasionally slows down to allow you to take on a really nasty enemy, such as a spinning cluster of boulders that fire at you. Then it's foot back on the gas to zip off and face more Tie-Fighters, Battlestar Galacticas



A That's it. Stick to the corners and stay safe...



Graphics

Original is not a word that applies to this game. I don't know what the graphic artists were thinking of when they were defining the levels, but inspiration obviously was coming from no further away it can't be easy to sit and design dozens of alien craft and meteors to come hurtling from the right of the screen towards you, but sure-

> against this kind of So, it's a very simple been so many fantastic shoot-em-ups on the Amiga over the years - after all, games is something the Amiga was born to do - that there aren't really any mistakes left to be such a tried and test-

ed formula that what makes a good one and what makes a bad one, so everyone knows what to avoid. Or so you would think, Vendetta has stunning graphics, smooth scrolling, very responsive controls, a wide variety of situations to negotiate, a solid two player mode and speed on its side. So just what's gone

wrong here? Structure. That's what's wrong. The game lacks structure.

### Motivation

Disposable Hero, I don't know how many weeks I lost stuck in addictive was that it had a real feeling of progression. You were on a journey, travelling from one place to another, and there was a about getting there. Something

had some really nice demo routines they wanted to show off to the world, and couldn't really be bothered to complete the game around them.

### Lacking

almost random in their flightpaths, appearing on one side of the screen and zipping to the other without a thought for you

apart from the occasional bullet that heads off

in your general It's not a bad game, by any keep even the player entertained

for a while, but the lack any real excitement leaves this one being just another pretty Amiga game - good for putting on the demo machine in the window, but lacking any real substance that would give it the entertainment. depth and excitement that any

shoot em up should ooze. Tony Dillon

### **VENDETTA 2175**

workheach version 3.0 CD-SOM mumber of disks hard disk installable

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native software packages (written of existing programs which can also be used dustry standard programs such as Word, Pagestream, Word Perfect, Page FileMaker Pro. Excel, Quark Xpress, Photoshop and many others have all been developed for the Mac

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## **Trapped**

■ Price: £19.95 ■ Publisher: Weird Science © 0116 2463800

■ Web site: www.weirdscience.co.uk

There are few companies who haven't written a version of Doom. But as the whole format becomes rather tired, we find that there's still life left in it....

mitation is the sincer-I've always been told, and plagiarism is the key to success in almost any field. Why else is it that so many companies over the years have tried to emulate the success of Doom by trying to take the idea and put a new spin on it? To be honest, I'm sick to the back teeth with the thing. First person perspective, 3D worlds are all well and good, but once you've been through one stone-walled maze, I think you've for this kind of technology. Something that takes the atmosphere and excitement of 'being there' and actually gives you a

purpose. It's something that will certainly engage more than your trigger finger in a quest to unbalance your equilibrium.

### Sticky pages

Oxyron think they have just the thing in Trapped - a fantasy role playing game set in a 3D world, in ning and initiative to negotiate their way through thirteen levels of mazes, monsters, traps and puzzles as they attempt to make their escape from the dark lord Tarnak. All of this takes place in random pages together

So what about the end up with is a blend shallow game. To explain what I mean, At the start you are be one of five charac-

ters, from a knight to a stay alive. Fools run in where angels fear... weapons, and has varying magical

the role playing element works.

A little sword practice can go a long way to helping you

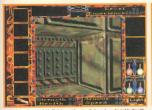
The essence of role playing, as defined by the name itself, is that you adopt a persona, and play the game through the eyes, actions being able to name your own character seems to show a certain lack of thought.

The other side to role playing and adventure games is the actual adventuring. What kind of challenges are you likely to find? What kind of puzzles will you be called upon to solve? Well, in the larly challenging. Find the keys to es to open doors that are usually visual range. So there aren't any

So what about the Doom side competent enough, as you would expect given the number of excellent titles that have already screen taking up about two thirds of the main display, surrounded your health and strength. There dows that show maps and suchlike, if you happen to have collected them. The way your



Low health and no experience. Revisit your wasted youth and hack and slash again, with Trapped.



### A In adventure games of this ilk, it is sometimes comforting to be confronted by the odd locked door. It's almost comforting for those of us who are revisiting our gaming past.

head bobs is quite fun to watch. as the coders have replaced the are all used to seeing, and have added a slight side to side tilt - all we need now is a whistling sound effect, and you have the happiest warrior ever.

### It's not my son All walls, floors and ceilings are

textured and light sourced, as you would expect, although I must admit to having a bit of a gripe when it comes to the use of light in this game. Obviously the coders have worked long and hard to create realistic lighting effects, and flickering candles do wonders to brighten up another understand is why after spending so long making the lighting work accurately, is it used so badly? Many of the rooms are dark and bland, while some corridors have so much light in them, it's like

walking into the centre of the sun. could have looked fantastic. Thankfully this seems to be some the sequel (preview on page 36). Glitches in the light sourcing also result in floor tiles lighting

did in that Billie Jean video by

does it play I hear you all ask? Because at the end of the day extremely sorry to say that the playability is the biggest bugbear

Now that's magic
One of the more interesting features in the game is the
uncompared to the more interesting features in the game is the
uncompared to the probability of the probability of the probability of the
news you to find the ingredients for yourself. Not that
any of them are particularly using, and simply involve
mixing one colour gas with another and their dinitials it,
you have a plentful supply
of gases to play with. Like
so many other things in the
game, this could have been



### Choose an Adventurer



Barbar

A Barbarians are still very popular races even today.

and exciting adventure ends up being rather bland. There is very do end up spending a lot of time ing corridors, looking for keys and you find something to fight and

about the very final nail in the coffin. Very badly drawn sprites walk directly

then stand stock you. Judging by the way your health drops. I can only assume that they are still

attacking you, but just

### Slow hand The combat control in Trapped is

extremely unresponsive. Too many times you'll find yourself backed into a corner waiting until your character is ready to strike again, which can have you waiting for up to a couple of seconds after your last stab or slash. This is, of course, ultimately frustrating. Still, at least the bad guys aren't particularly intelligent. Get one behind the other, and they will wait in an orderly queue to The concept for Trapped is a

though, you'll find the idea of mixworld with a role playing game was done to excellent effect Legends Of Valour, It's therefore this version hasn't succeeded in





taking any real steps forward. Having said that, the fact that this has been done on the Amiga at all belies the fact that graphical 3D advanced. The game actually scores well here, but with a little bit more structuring of the adven-Trapped could have easily been a superb game. As it stands, it's higher than the game's depth. Tony Dillon



# Reach for the

Steve Brown of Mindscape International was one of the original creators behind the hack 'n' slash Barbarian games...



Name: Steve Patrick Brown Age: 36 Born: Isleworth Occupation: Creative Director for Palace, now Lead Designer for Mindscape Interactive Biggest Success: Barbarian, Barbarian 2 (Palace Software)

CU: So how did you initially get into working with computers?

SB: Having completed an illustration course, I saw a Palace Software ad in the back of Campaign (the weekly media publication). I'd originally intended to go straight into some comic book art, but I'd always wanted to try animation too, so I thought I'd give it a go.

Is there anything I miss? Yeah, I think game production was much more manageable in those days when teams were smaller

> CU: What was the first game you ever worked on? SB: Cauldron for the C64.

CU: When did you first become involved with the Amiga?

BB: Around the end of working on Barbarian on the C64, Palace got some Amigas in for some evaluation and we just

CU: What were your first impressions of the Amiga and how did working with





512K of memory and the increase to 4096 colours compare to the C64?

SB: Obviously the machine was a big improvement over the C64. The increased memory at the time was phenomenal, but I was also very much excited by it's potential for graphics, animation and sound.

CU: Who else did you work with during Barbarian and Barbarian2?

Barbarian and Barbarianz?

SB: I worked with Richard Leinfellner, Stan Schembri and Andy Fitter who handled the programming side, while Gary Carr and Joe Walker handled the graphics side.

CU: After those Barbarian years, the Amiga sadly has become a distant memory to you, do you miss anything about those golden days?

SB: Actually, I still use my trusty old Amiga for my accounts (although any day own I'll be switching over to Exel on the PC – alas, the end of an era!) But I digress... Is there anything I miss? Yeah, I think game production was much more manageable in those days when teams were much smaller rather than today.

CU: Palace Software made computer games but were also famous for making films. Whatever happened to them? SR: The whole Palace group went into lice

films. Whatever happened to them?

SB: The whole Palace group went into liquidation in 1992, after pouring unfeasibly large amounts of money into a series of

unfeasibly crap movies.

CU: You've recently joined Mindscape International and you're off to LA for the prestigious E3 show. What is your latest role in the computer industry?

SB: I take a Creative Director role at Mindscape International, although I still like to keep a 'hands-on-approach', i.e. producing some of the artwork and animation as well as game concept and design.

CU: Now that the Amiga has been bought once again, can you see it ever reclaiming its former glory and becoming the affordable home computer that

ing the affordable home computer that we all owned one time or another?

SB: Unfortunately, I do not. I think that the PC has far taken too much ground for any other machines to compete.

CU: What do you think is the future of computer games and where are we going?

SB: Now there's a question. My view is that as technology improves, movies and games will become virtually indistinguishable from one another in terms of their scope, quality and the methods of production. Virtual reality, photo-realistic CGI, it's all inevitable. Now if only Loudi get myself a computer that could handle the

animations in my head...

Mark Forbes



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## **Tips Central**



Breathe new life into your games collection with another set of cheats from Mark Forbes.

Troubled adventurers should journey across the page to consult Tony Gill.

### Valhalla series

Courtesy of Lisa Tunnah, here are the codes for the Valhalla series.

Valhalla - Befo	ore the War
The Tower:	ABHEFT
The Chapel:	UHGWIL
The Sanctuary:	LOPFGW
The Crypt:	No code

The Dungeons: PUMEL
The Gallery: BOMAL
King's Chamber: SAMOL

Valhalia - The Fortress of Eve Village of Eve's Land: MAHAM Fortress Courtyard: TIUIT Fortress Tower: TOHOT

### Impossible Mission Special Edition

Level 1	
SUBSECTION 1:	AAAAAAA
SUBSECTION 2:	ETQCWXLB
SUBSECTION 3:	EXQBEXYP
Level 2	
LEVEL 2 - OFFICE	ZONE
SUBSECTION 1:	FBQBRXYH
CURRECTION 3:	FFORYXRL

SUBSECTION 3:

46

**FJQHMXPH** 

SUBSECTION 2: FRODRXWH
SUBSECTION 3: FU02NXFL
Level 4
SUBSECTION 1: FZOAXXUA
SUBSECTION 2: GDOLWXIJ
SUBSECTION 3: GHOLVXVJ
Level 5
SUBSECTION 1: GIGCOXRG

GLOZGXC-I

GQQBJXOF

NO CODE

The Empire Strikes Back

SUBSECTION 2: SUBSECTION 3:

SUBSECTION 4:

Press and hold down the Help key on the title page and type - XIFARGROTCEV or try XIFARG ROTKEV (which spelt backwards is VEKTOR GRAFIX) to get to the cheat mode. Press Return to terminate the cheat.

Press L for a picture of Luke Skywalker Press C for a picture of C3PO Press D for a picture of Darth Vader Press any of the number keys for speech samples.

Return of the Jedi

Enter your name as DARTH VADER on the high score screen and play the game as usual.

race you will see that you've come first!

### A-Train

Press Caps Lock and type CHEATERCHEATER-WIMP. After a moment your cash funds will exceed themselves by one million dollars and all your land will be full of building blocks. And the best thing? You can continue to do this endlessly! Also while playing, hold down Shift and Y. fire lands of money!

### Railroad Tycoon

You can increase your bank balance by \$500,000 by entering the F1 screen and holding down Shift and 4 together to display a dollar sign. As soon as that has happened you should receive tons of money from your inheritance. Remember though, this only works with the main continent screen.

### Kid Chaos Some level codes... Level 1: LFE Level 2: MD Level 3: NR

Level 4

Level 5

rvel	codes
1:	LFEGOKQCK
2:	MDORQAPKHOL
3:	NRLQTAGASIM
	NRLQTAGASIM
5:	OPTSQARBLOD

The following codes give you ten lives and a high score.

high score.	
Level 1:	CBBDCBABKAK
Level 2:	MHCNBBKBAL
Level 3:	DRFDQBLLKKC
Level 4:	OOCTLBBKKN

Enter the following as passwords:

ARCADEGAMES - gives you a snazzy

HARDASNAILS - gives you a cheat menu BMNEPGHITJJ - unknown, but let us know

O-4 - was all tim?

Got a good tip?

If you've got a good cheat or tip for your favourite game, why not send it off to us and we can tell the whole world about it. Send your tips to: Tips Central, CU Amiga, 37-39 Millharbour, lale of Dogs, London, E14 9TZ.



### Eye of the Beholder II

seem to new-cleare open and underground passages etc. and I have worked on the levels above ground I have worked on the levels above ground. I think it called the Silver Tower – and finally! have the seem of th

### A.E. Berryman, Cramlington.

View finally got the Dorkmoon mark on your hand, and yot you want to know what the Whark' is that the voice speaks of. I think you've been drinking the dirty water in the adapcess again, and it's affecting your brain. You've obviously got the mark or else you wouldn't have got past the magic mouth to find the assure shield you silly soil. And as for the shield, you'll note that it is made from a agreety green stone, so why not find a tough hammer which is just the right size on level three of the Silver Tower.

### Bard's Tale II -The Destiny Knight

Please help me to end months of forment! I am on the verge of acquiring the last segment of the Destiny Wand, but cannot find the passwords to gain entry to the dungeons under Colosse. Also I can't get the Dreamspell to work I would be grateful for some help.

### Dave Simmons, South Shields.

The passwords you rook new FREEE and PLEASE, so you can see that your old annu was rights when she said that it never hauts to say please and thenkey you. As for the powerful dream-spell, you must call the emajes word 2260. The entrained of any dangeon, ceathe, prieres or eryge to enter our of the entrained of any dangeon, ceathe, prieres or eryge to enter the head you good to be a seen to be extracted of the head your good to be extracted to the head you good to be extracted to be a seen to be extracted to the seen of your men, and also consider to have a form on one of your men, and also consider to have a form of your form, and also consider to have a form of your form, and also consider to have a form of your form, and also consider to have the priest you for the priest your party has former your form of your form.

### **Amberstar**

I have been playing Amberstar for two months and I am stuck. Could you please tell me the following: the name of the pirate which will get me into the Chancellor's Cellar in Crytal,

### Susan Long, Newcastle.

Yes, well, the first problem with this game is that it was written in Germany, Because of this, Ambertan's jul of little extra challenges, mainly to do with the English language. I believe they first wrote the game in German then picked up some drunk off a cross channel ferry and paid them a fiver to do a translation. The pirate's name is relatively easy, for it is Maltor. The answer to the first



riddle is also easy for it is 'Ear'. The remaining riddles are baffling, even when you know the answer. To the question "It flee statherless, into a tree leafless. Who ate lit" The answer is 'Sun'. To the question "A woman came mouthless and ate the bird featherless. Who was flying?" The answer is 'Snow'. Your I'm sure it's all become clear to you, now that it's been explained!

### Space Quest 4 I've been stuck in SQ4 for months! I need the

code for Ulence Flats. I have the three codes from the hint book, but I can't get the rest.

### R.B. Stone, Bristol.

Well the place you should be looking is back in the arcade at Galaxy Galleria.

Drift around and wait for the police to come after you. When they do, go down quickly and go back into the arcades. Read the hint book to get the first three digits of a code and open the paper (from the nest) to get the second half. Enter the time hopper and type in the code.

### Quest for Glory -Hero's Quest | recently bought the game, Quest For Glory -

Part 1. However, after playing for weeks and weeks, I have had terrible trouble actually getting in to see the baron. When I ask the guards about letting me enter the castle to see the baron, all they say is, "To enter the castle to see the baron, all they say is, "To enter the castle

you have to have the baron's permission".
This is so annoying I am a fighter in this version of the game. Could you please help me solve this problem?

### Joanna Hicks, London.

The baron is a worried man, and he isn't going to waste his time talking to the likes of you, unless you make it obvious that you are very interested in his welfare. If you were to ask the guards all about the baron and his problems they might realise that you could help solve some of the baron's troubles.

Ask about the baron, his son, his daughter, about Yorick, about Babayaga, and about brigands. Now you'll find that you will be able to open the door and enter.

### Curse of Enchantia The part I can't work out with this game is

where the sand monsters come up from the ground. I have tried to put the string through the two eyes either side, but it does not work.

### Tom Davenport, Barry.

String is no good. Have you ever tried cutting cheese with a piece of string? Don't bother, it doesn't work. Wire is what you are looking for my son, and here is how you get some. Go to the cave with the four holes in the wall. Look in all of the holes and a creature will pop out. Go to the hole on the far right and look again. This time you'll find some twigs. Use the twigs with the seaweed which you should have found earlier and you'll find that you've made a mask. Go to the cave where the computer is to be found and look in the hole in the wall to see a reel of wire. Pick up the computer and go to the cave with the plank. Stand behind the plank and throw the computer. You will be catapulted up onto a ledge where you can pick up a magnet. Jump down and return to the hole in the wall. Use the string with the magnet, then throw the magnet into the hole. Hey Presto! You now have a reel of wire.

### Monkey Island II

I recently picked up an old copy of The Secret of Monkey Island II for the first time. There are no helplines I can ring so please tell me, how do I get past the Troll?

### Gae Lambert, Whittle-le-Woods, Lancs.

The Troll is after a fish. If you visit the Scumm Bar and go the rear of it, you will notice a fish lying on the jetty. It is surrounded by sea-gulls but if you step repeatedly on the loose plank, the noise will scare off the birds and you can nab the fish.

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Holy Gateway cow! Things are looking amazing with this bumper collection of excellent Amiga hardware

and software. Check it out!



Last month we provided a total Internet solution, this month we put the Amiga's top three WWW browsers head to head. Beginning on page 50, we bring you the comprehensive head-to-head reviews of Voyager-NG, IBrowse and AWeb 3.0.

### **Tower Round-up**

We take a look at a collection of hardware for use with a tower Amiga setup; keyboard adaptors, IDE/floppy interfaces and more.

### Cinema 4D CD

Otherwise known as Cinema 4D version 4 Pro, the latest CD edition of Maxon's easy to use and powerful rendering package arrives.

### The Whippet

HiSoft's new PCMCIA high speed serial port is put through its paces. Does it speed up modems and access to the Internet?

### **Port Plus Junior** 60

Evetech's Port Plus Jnr is another high speed serial port which uses the A1200 clock connector. How does it compare to the Whippet?

### Viper 630

The Amiga 600 gets a major speed boost. Andrew Korn takes a look at this new 40MHz 68030 accelerator from Power Computing.

### Viper Mk V

A new low cost 50Mhz 68030 A1200 accelerator with built-in SCSI II gets a work out as Andrew Korn puts it through its paces.

### DOpus Magellan 62

It's finally here, the latest and greatest version of GP Software's Directory Opus. Mat Bettinson takes Magellan for a test drive.

### **PD Scene** 64

Manage Glasgow Rangers in a British league, slide around a bouncy track or read some science fiction. PD keeps you entertained.

### **PD** Utilities 66

This is one of the odder batches we've had and includes telephone answering machine messages! Also, the Best of Aminet column.

### CD-ROM Scene 70

Two different CD-ROM collections, both third editions, both realeased this month. Doctor! Doctor! My brain hurts!

### **Art Gallery**

Marvellous pictures from our extremely and extraordinarily talented readers. Please keep it up so next month is just as good!













The Net is where it's all happening on the Amiga, and in the next few pages, we put the Amiga's top trio of web browsers head to head and come up with some interesting results.

## yager NG 2.90



rice: £19.99 ■ Developer: Oliver Wagner ■ Supplier: Active Software ② 01325-352260



of 'Voyager'. It was eventually rereleased as Voyager-NG (V-NG). now at version 2.90, as in this review. Of the three here, it's the cheapest Web browser, but it has still pioneered some key features. Here's how it shapes up...

outset that Voyager is a whole tenner cheaper than the other browsers here. It's even available to use for free which means that you have no excuses not to try it.

### **Progressive**

V-NG has come a long way to make the transition to a 'progressive display' browser. This was previously the sole arena of Browse but V-NG also now sports real time progressive display of Web images as they are downloaded. In order to do this, the browser must implement it's own loaders rather than use datatypes data on the fly. Not only does V-NG support JPG and GIF image decoding internally but it's also one of the few browsers in the world to support internal progressive loading of the new PNG for-



▲ Voyager's built-in SSL means you can buy on the Web with confidence.

oyager's original debut mat. It doesn't have a fallback to datatypes, but with JPG, GIF and PNG, all the bases are covered.

All the browsers have full Frames support. In fact, V-NG was the first to have this feature and it that when resizing pages (or when finishing loading). V-NG will often take two passes, resulting in a slightly longer redraw time. Other are also to be found such as AnimGIFs which are now extreme-

### Credit worthy VNG was also first to add SSI or

Secure Socket Laver so it's now Web from your Amiga, and be confident that prying eyes can't get to your credit card details. What's more, unlike IBrowse, V-NG's SSL is built-in and works on any Amiga's TCP/IP stack. A host of small features is also supported by V-NG such as the handy clipping of text from a web page and right mouse button activated pop-up menus for images and frames allowing you to perform

Recently, the author made optimisations at the suggestion of the creator of MUI, Stefan Stuntz. The result is a considerable acceleration in the general navigation



▲ The Vaporware home page makes extensive use of Frames, and Voyager copes well.



▲ This funky Voyager plug-in sends a search query of your choice to four sites and then displays the results in four different frames. V-NG gave the best results at unreasonable. With regular

dithering images to fit on a less than truecolour screen, a consideration for any Amiga users not

### Problems

Unfortunately VNG isn't without its problems. Some peculiarities fonts, placing gaps between images and occasionally overlaying images on top of each. The

on Microsoft's web site and table borders are quite unsightly. I'm not too impressed with the recent text input class either, which is used inside forms and so on.

The bottom line is that V-NG is right up there with the features. jour mostly related to HTML parsing. However, there's little doubt that it's easily the best value for

updates including Voyager mailing list, and the author's regular public update releases, it is a well supported product too. Voyager-NG gets the thumbs up here. Mat Bettinson



## **IBrowse 1.12**

### ■ Price: £29.95 ■ Developer: Stefan Burstroem ■ Supplier: HiSoft © 01525-718181

oming from the team operating the original Amosaic to Amiga graphical web browser). Amiga graphical web browser). He Swede, Stean Burstroem decided to program a web browser from scratch. Browse has pushed the web browsing arena with its cutting edge features, so now it's time to see how it stacks up against the new competition.

browsers, some readers save that the save that the save that the save that a higher mark in each area of our scoreboxes than AWeb, but had a lower overall mark. This was due to the inherent stability problems that have plaguaged florware for ages. I can now report that this seems to be under control, as I only experienced one (Browse for ages.) The control was a long to the save that the control was the save that the save the save that the save the save the save the save that the save the sa

### **New bits**

Browse lasm't been as well updated as the competition but it started out in front. Luckly the author has taken time out to fix problems as well as implement new features. Now for Browses 1.12 is Frames—and very good Frame support it is, but this is universal among Amiga browsers. Browses still has the best progressive display, only slightly better than HWG's since it doesn't lay out the page again to add the Frame scrollbars.

Probably the first thing noticed with 1.12 is the URL completion function. This is where IBrowse tries to intelligently guess the URL you are typing after each keypress. It can be very odd at first but quickly it makes for much



▲ Here we see IBrowse progressively loading GIFs. Sadly, it gets the table cells wrong with the headings askew.



A Browse gets nearly everything right on our home page but, like V-NG, it sometimes overlays graphics as can been seen at the bottom

quicker manual entry of URLs. Most people should more sensibly use the history buffer window instead. I do like IBrowse's new Netstat window, a feature of AWeb 'borrowed' by the other browsers though it needs a progress bar.

Sadly the remapping of images on a less than truecolour screen is still quite dire. Browse consistently gave the worst results in this area –even at 256 colours. So, if you're planning to use less, then things will get ugly very quickly. There were also some layout quirks in IBrowse that

included table rows automatically not forcing a linefeed. This breaks phase 5's news page for example. Like VNG, it also suffers from overlapping images on occasion. The MUI GUI allows you to do some nifty things to the browser presentation quite quickly. These include; dragging the fast links to the top, side or bottom of the page, using

st proper pull down cycle menus in forms, snapshotting the size and position of the GUIs within, and, like V-NG, it also benefits from customised MUI settings – as evident in the screenshots here.

### Safe decoding Browse includes image decode

libraries for all major classes of CPUs including the 68060. There's no doubt that Stefan's image decoders are about the fastest there are, having been heavily optimised in assembler, They've been known to crash on corrupt images in the past, but I saw no evidence of this with 1.12. Usenet news browsing still isn't implemented and neither is text clipping from the page. This really is quite annoving as these features have been often asked for in the nast vet still haven't appeared since the last upgrade.

IBrowse added SSL security support for this version, but it will require a registered version of Miami as it uses Miami's built-in SSL library. If like me you buy products from the Web then you'll have to have it. The lack of text

clipping and dire image mapping are going to be active hindrances for a great deal of Amiga users though. I hope they're addressed soon. Browse is still a dam good browser with a gorgeous progressive display. There's a demo available on the CD so you'd be well advised to check it out. Browse comes heartily recommended.





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## AWeb-II 3.0

- Price: £29.95 Developer: Yvon Rozijn ■ Supplier: Blittersoft © 01908-261466
- he AWeb browser appeared from parameter from parameter from fapidity the Dutch programmed browser has achieved a great following and significant functions have been added over time. Being the most infrequently updated browser, AWeb-II 3.0 has been a long time coming but it's here now and has added a beey of move features previously only

## found on the MUI browsers. Latest update

AWebI 13.0 odd name i thought. Why not call it AWeb Ayway it's certainly the most different of the browsers. Browse and VMG have been competing head to head for some time, the reason for this being that AWeb has been waiting the longst AWeb has been waiting site upgraded to Frames usage without a Framed-up AWeb to site upgraded to site and it's actually perty damn good as you'd appet with a long beta testexpect with such a long beta test-

ing period. Opting not to use MUI has won Quring not to use MUI has won AVee many fans – no doubt about that. Not wishing to subscribe to the MUI argument at this point. it it suffers to say that AVee states of the substitution of the substitution of the subtional subtional to the subtional subley that the ClassAct GUI system. The latter is used in the preferences GUIs. In the spirit of fairness, I spent a little time customising my ClassAct GUI say far as it will allow, which means a choice of gadget type and a backnoice of padget type and a backnoice of gadget type and a back-

ground image for the windows.

AWeb is the only browser here which still desen't support internal decoding of Gland JPG — It still relies instead on datatypes. This is out and out lunacy! It's completely indiculous that after all this time, it still has nothing more than an API to allow image decoder plug ins.

The still be supported to the still be supported to the still be supported to the support of the the

So there's no progressive lo ing of images at all. Only after they are downloaded will the datatype decoding process start. In practice, this slows things down and excludes browser essentials such as AnimGIFs and makes for the whole loading procedure to look nowhere near as you as the competition. That some things the such are very good. AlWeb 3 has an image loading API meaning that some third party decoders should appear in the future, luckily.

I'm very impressed with the HTML layout engine of AWeb. It's consistently doing a very good job of rendering even problematic pages. Neither V-NG nor IBrowse are smart enough to put a cap on the use of <NOBR> at http://www.keybdwizrd.com. Then again AWeb sometimes loses the plot at font sizes and will render an entire page in a massive <H1>, It also has three HTML rendering modes; strict, tolerant and compatible. This may be useful for Web authoring. There's also a really nice configuration for 'styles' where headlines and special HTML tags like <STRONG> can be defined as certain fonts

### More features

There's a host of other additions too; built-in FTP, default mail-to; system built-in, cookie filter (ideal for nuking annoying cookies like AmiCrawlers only), text clipping from the browser window, cps added to the already excellent



AWeb performed the best on this site, the only browser to correctly handle < NOBR>.



A Cycle gadgets notable by their absence.

push/pull. On the other hand, it doesn't have SSL secure HTML support. A major oversight. It also doesn't rescale images for some reason, another minor point perhaps, but so it's another missing standard feature. I don't mind the lack of MUI features as much as I thought except for Form cycle gadgets. AWeb sees fit to use a listview instead where you must click through it to set an entry. There's a 'cycle to list' option but it applies to entries around five or less. You still need to click 50 times to select a country. Hmm...

every browser in the world uses a proper pull down menu for this.

### Fast browser

through the cache, thanks to the stashing of raw decoded images and it also has a very good HTML layout engine. It even looked good after I'd customised my ClassAct. But loart ignore the missing features such as progressive loading, image scaling. AnimGIFs and SSL secure HTML Results can be good on low colour screens depending on your clastypes and their settlings.

AWbe has come a long way and if it addresses those glaring omissions, it has a chance at being the best all round browser. By then though, who knows what each of the other browsers will have achieved or how long it will be until their next update. Anyway, AWbe-I lis still a damin good browser with some great features of its own.

Mat Bettinson

### **Browser features**

	Voyager-NG	AWeb-II 3.0	IBrowse 1.12
GUI	MUI	Class Act	MUI
GIF	Internal	Datatypes	Internal
JPG	Internal	Datatypes	Internal
PNG	Internal	Datatypes	Datatypes
Other	No	Datatypes	Datatypes
AnimGIFs	Yes	No	Yes
Image Scaling	Yes	No	Yes
SSL support	Yes	No	Yes (Miami)
Text clipping	Yes	Yes	No
Mem 8-bit screen	1850K	2146K	2032K
Mem 16-bit screen	2839K	2864K	2808K
Cookie filter	No	Yes	No
Styles	No	Yes	No

### AWob II 2

AWeb-II 3.0		
A503	system requirements: 4Mb free memory, Rickstart 2 MUI 3.6	
A500+	or better, HD required (SMb).	
1600	Same hasic functions require configuring before they can be used.	
A1280	performance 82% Excellent HTML performance but other key features are locking.	
	value for money	
A3000	Superb but flawed Amiga browser.	

## **DIY Tower Systems**

Need to know which bits to put into Round-up

a tower system? Well try these...



### Micronik 4 way IDE adaptor

- Available from: Blittersoft
- Tel: 01908 261466

■ Price: £19.95

This four way adaptor is a very basic, but very neat little IDE header adaptor. The tiny circuit board pushes down onto the IDE header on the motherboard and gives you a through header for your 44 pin hard drive and a 40 way header for 3.5" devices. There is no bufferpair a couple of devices some distance away in a tower case with an internal 2.5" hard drive kept very close to the header, there won't be much extra cable length. Long cables are the main reason for going need buffering. It gets in the way of the

which some people like to retain after



### Micronik 4 way IDE adaptor with software

■ Available from: Blittersoft

- Price: £29.95

■ Tel: 01908 261466 This four way has a 44 pin and a 40 pin header, is properly buffered and what's more it does come with a reqistered copy of George Campani's Atani P 'n P software. It is significantly larger than the above board, ably, although you may have to trim off a small corner of the metal shield. Unfortunately the board doesn't have the luxury of the choice of 40 or 44 pin connector that the Eyetech buffered interface device enjoys, but having said that, it is noticably cheaper than many ferred looks like it will continue, but at this price the argument seems entirely academic. Whatever your preference for buffering. this adaptor is simply excellent value for money.

### Micronik passive SCSI adaptors

■ Available from: Blittersoft

■ Tel: 01908 261466

■ Price: £19.95

These could be the solution to all your problems if you want a DIY SCSI tower SCSI devices come with all sorts of different connectors. If you have a Squirrel, you're going to

have to find your own solution. However, if you have a Dataflyer, or one of those SCSI adaptors which plug into an accelerator card and use a 25 pin D type connector, then these two adaptors will allow you access to the full range of internal SCSI devices for your tower. The triangular version has a 25 pin male connector which plugs into your SCSI interface. You can connect a nice multiway backup devices and hard drives you feel like into the 50 pin connec tor on the adaptor. The square adaptor can connect to a spare header on your multiway internal cable and fits to one of the rear slots on your tower giving you an external 25 pin D type socket Priced at £20 each, it may



money for a simple adaptor, but a quick scan of a PC dealers price list shows

similar products.

### Micronik PC keyboard interfaces

■ Available from: Blittersoft

■ Tel: 01908 261466

■ Price: £39.95

Here are some more keythe ribbon connector. different configurations of the keyboard adaptor



with desktop A1200 consoles as it has a cable-mounted DIN socket, back of the case. Like the Eyetech unit, these are autosensing and can take either PC or Amiga keyboards. Unlike the Eyetech unit,

there has been no thought given to mounting, so this is a problem you'll have to sort out sticking the adaptor to the mother around a third of the length of the one on the Eyetech unit. On the upside, you'll find that they don't occupy one of your tower's power



- Available from: Eyetech.
- Tel: 01642 713185
- Price: £14.95

Here's a damn good solution to the problem of transferring your floppy drive to a tower. The A1200 internal floppy drive will fit fine in a case, but you have to glue the button on it and it looks uglier than a chimpanzee's backside. This tiny little board simply plugs over the floppy drive connector on your motherboard and has a through connector. Once fitted, your Amiga can use standard PC drives. As PC internal floppy drives can be bought for as little as £12, this makes buying replacement drives a doddle. You don't get to use high density disks even though you are now using a high density drive, but if you don't want the complexity and don't need the flexibility of a Catweasel, this is a perfect solution. An Eyetech interface and a high

than internal Amiga floppy disks, if you can find any Alternatively look at the Micronik high density drive (top right) for a costly but flexible alternative

### Micronik internal floppy drive

■ Available from: Blittersoft

■ Tel: 01908 261466

■ Price: £54.95

Right, now this is something every Amiga tower user wants: a high density floppy drive. This works the same way as the original Commodore high density drive - it is a half speed device. Unlike some of the hacky but functional high density drives which various third party manufacturers have produced in the past, this is a totally plug and play device. Connect it to the floppy connector, plug in the power line, switch your computer on and it works. Stick in a low density disk and it formats to 880k, stick in a high density disk and it formats to 1.76Mb. The real beauty of this is apparent if you often need to share data with a PC. With this disk drive and CrossDOS as supplied with Workbench 3.0+, you can use PC 1.44Mb disks The drive comes in two forms, one described as being for A4000s, and one for A1200s. The only difference between the two is that one has a faceplate and the other doesn't. Obviously this means that if you are looking for something to go into a tower, you want the one for the A4000 - even if you use an A1200 motherboard. If you are sticking to your old fashioned console style case for the time being, or have gone for the 'sidecar' tower as detailed in the first part of our tower feature, you can go for the A1200 one instead. Although

cheaper than most competing products, the the speed or

Catweasel isn't nearly as easy to use

### **EZ-Kev**

Available from: Eyetech.

adaptor we've come across

■ Tel: 01642 713185

■ Price: £39.95 Now this is the way a keyboard adaptor ought to work. The board has a couple of support columns with sticky pads to fit neatly onto the back plate of a tower case. the board from a spare 3.5 standard 5 pin din connec tor can be mounted behind the keyboard socket hole on the back of the case. A nice into the keyboard ribbon senses Amiga 2000 or PC keyboards allowing you to plug straight in. Very





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GH WARRANTY.

AN EASY DRIVE FROM MOST AREAS, We're open Monday to Saturday 9.00am until 5.00pm...

## Cinema 4D 4.2.CD Edition

- Price: £199.95 Upgrades from: £29 from v4.2, £69 from v2.0.
- Supplier: HiSoft © 01525 718181 Web site: http://www.hisoft.co.uk

Amiga revival continues with another incarnation of Maxon's Cinema 4D.



package that is now also available Edition (version 4.2) has made it to the Amiga last but, now it's here I'm very pleased to say that it seems to have been well worth

Cinema 4D has always seemed uncannily fast and stable, but its interface could be tedious to use, with complex procedures for certain functions, no-where more so than in the material manager. In versions 2.0 and 3.0, to change a material and apply it to an object you had to follow a long, laborious process of menu selections. The how easy this function now is.

### **Tasty textures**

With the latest Cinema 4D CD Edition, Maxon have added the useful you have a pretty material manager window that sits anywhere on the screen and can be resized to your requirements, just like a normal Amiga window. Now, when you want to adjust and apply a material, you just double-click on its icon and up pops an easy-to-use editor interface where you can happily adjust the material to your requirements and see an example of the new material, rendered in real time. When you've finished just click on OK and the interface closes. Then select the object you want, click the material icon, go to 'Apply' in the new material pull-down menu and 'Hey Presto', job done.

Thanks to the new, multi-coloured editor option, the wireframe of the object is already synchronised with the new material colour. making it easier to identify the parts of your model on screen.

This edition will also allow an infinite number of texture maps to be applied to a material, along with customised highlight widths. This means that, with only a little bit of practice, you can easily generate your very own personal library and include all of your weird and wonderful materials



▲ Using the Materials Manager is quite simple. Just click on one of the material icons and the material becomes active.

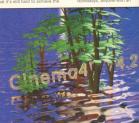


Ease of material use is aided by a simply double click on a material icon to access the handy material editor.

### Modelling tools

As before, Cinema 4D offers a choice of primitive objects (cones, pyramids, perfect spheres...) and the essential range of modelling tools (path, extrude, Boolean...) so it's therefore slightly disappointing that it's still hard to achieve the

exact results you want. Cinema 4D can certainly produce some great results though results can be awfully hard - path objects remaining a case point for anything remotely complex.



Despite the lack of organic tools it is still possible to model organic looking scenes. This one was probably originated by Captain Picard.



A Great for making mechanoids, but not so good for realistic renders of human beings.

interest in graphics and animation want to generate life-like renders so the inclusion of organic-style modelling tools, such as metanurbs and metaballs, would certainly have improved matters. Sure, Cinema 4D can happily model buildings, robots, spaceships and cups of tea but just you try and produce a life-like person. animal or landscape and you'll soon be losing your hair faster than Captain Picard.

### Easy does it

Complex modelling aside, Cinema packages to get to learn and newrendering their first scene on day one. As you can see from the renders on these pages, which have been easily adapted from the CD's bonus drawer, perseverance can pay off. If you are a complete newcomer however, you really

won't need to panic either. logical and easy to follow, and contain several tutorial examples to help you get on your way.

### Animation

4D's most powerful and easy-touse features. Basic, keyframe animation takes about five minutes to learn, while adding the built-in special effects (explode, deform, melt...) can be achieved in an hour or two. This latest version brings the addition of full material morphing - removing previous limits on texture types. For lifelike, and believeable walking models there's still no bones option but there are inverse kinematics. with parameters for angle, damping and acceleration.

### Playback

The supplied version of MainActor

< | > | < | > | Position Sub-Objects Direction H

Animating with keyframes is nearly as easy as using your video recorder.



▲ The new, colourful editor screen, with a small, rendered image of the scene (top left).

will let you play animations in HAM or, if you have an AGA

New to this edition are the additions of realistic soft shadows, lens flares behind transparanti-aliasing. The ease with which Cinema 4D can control visible light is totally unique and, in this respect, it even gives LightWave 5 needs now is fractal noise for generating plasma beams.

### Rendering

To boost the performance, direct internal support for 68060 accelerators and CyberGraphX compatible graphics boards has been added to the program

Thanks to the speed of the ravtracer, you can easily work on a scene whilst rendering others, cessing power to the most important job. New support for a 24-bit Workbench mode means you can quickly render a full-colour test image onto the editor screen, the editor. Cool! There is almost no fear of system failure either as the only time Cinema 4D ever seems to crash is when using CinemaWorld or CinemaFont.

### Is 4D for you?

If it is your all-encompaintention to produce fully-professional organic renders, then even £1000+, LightWave 5 almost cer-Otherwise, at under £200, Cinema 4D 4.2 CD Edition has to be the way to go. Modelling can be tricky but its stability, rendering speed and overall ease of use simply can't be beaten. However it would be rather silly to count

### **Upgrade?**

The upgrade includes a colourful addendum, highlighting all of the new features in HiSoft's typically clear and logical manner. From version 3 (floppy or CD) you can upgrade to the version 4.2 CD Edition for the sum of £29. This will include the complete versions of MagicLink and MainActor, in addition to the interesting but flawed CinemaWorld and CinemaFont, If you're thinking of upgrading from version 2 it will cost you a total of £69. In either case, this edition seem's well worth upgrading for the new material manager alone.

out the promising Aladdin 4D. which we will review next month. However, until they reach the light of day, it remains to be said that Cinema 4D CD Edition, is the King of the Hill, for now. Richard Bradford

### Cinema 4D CD Edition

rd drive, 3Mb free RAM, WB2.04+ 68828+ and CD-ROM With it plothers of fee

A great prot

## Whippet

■ Price: £49.95 ■ Developer: HiSoft ■ Supplier: HiSoft © 01525-718181

http://www.hisoft.co.uk

he Amiga's serial port cially when using a new, high speed 56K em. Using USR's 'X2' or Rockwell/Lucent's 'K56Flex' these modems need to link to the Amiga at a speed of at least 115200 baud, preferably more Unfortunately, 115200 is the highest rate the Amiga's serial port will run at and it doesn't do that very well. With a pitiful single byte FIFO (first in, first out) buffer, sands of times per second in order to empty it. If they aren't serviced, data loss occurs - if they are it eats the CPU's power

they are it eats the CPU's power.
What we need is a replacement serial port and this is what
HiSoft supplied with the PCMCIA
Surf Squirrel. This unit was an
update to the Squirrel SCSI inter-

face which had a built-in high speed serial port. The Whippet, reviewed here, is much the same only without the SCSI interface. The only connector on the Whippet is a small 9 pin serial port. A standard modem 9 to 25 pin serial cable is supplied also. In terms of use, the Whippet

does exactly what it says on the

tin, or cardboard box in this case, installation of the software is extremely basic, it's just a whilp-pet.device copied into devs. I fired up Miami connected to a dual channel. 128 ISDN terminal adaptor, selected 460800 baud and linked up first time. CPU time was noticeable due for the control of the con

The Whippet

rate, I downloaded at 15K/s. Since the Whippet will deal with this very high rate with no problem, it's going to be fine at 230400 for a 56K modem.

Personally I dislike PCMCIA with a passion. As usual, a pin bent when I plugged in the Whippet and some delicate surgery was needed to straighten it out. If you're careful inserting it and you don't slap it in and out too often, it should be fine. However, it's an unsightly and

bulking addition to the side of your A1200. Overall, the Whipper's simple installation, good performance and overall high quality will let your Arniga get the most from the Internet. It's also bound to work a real treat with a serial network. Another great Hilbot product, as we've now come to expect.

85

## **Port Plus Jnr**

■ Price: £49.95 ■ Developer: VMC

### ■ Supplier: Eyetech © 01632 713185

long the same lines, the Eyetech Port Plus Junior (AKA HyperCOM x), is a high speed serial port for the A1200. If you caught the review of the bigger borther with two serial ports and a president ports and a possess, and is a serial port in last month's issue, you'll know it uses an unorthodox way of connecting to the Amiga.

The Port Plus Jirr plugs into the internal clock connector inside the A1200. We've hear reports of some A1200s not having this connector so it would be a good idea to check first. It's located in a recess in the RF shield, near the floopy drive connectors. The Port Plus Jir, like its big daddy, plugs on to the connector snugly and occupies the recess perfectly.

A lead then goes to a single

28-pin D type serial socket, just like the A1200's osisting serial port. Unlike the Port Plus, since there's just the single port, it will fit into the spare socket on the right hand side of the A10 the case but it's a better solution than the standard PC Lobaking plates - these would trail out the back with the Port Plus. Of course if your A1200 is in a tower, but the spare that was the proper and the spare and the spare and the spare are spare and the spare are sparent plates. The spare 25 pin D sockets and it should be possible to screw this?

Performance wise, the Port Plus Jnr is even better than the Whippet. That's due to the hardware interrupt available on the clock connector and its huge 32 byte FIFO. To be honest, the difference wayn't really noticeable at 460800bps with the ISDN terminal adaptor and it certainly. won't be at 230400 for a 56K modern. The biggest issue between the cards it the physical connection; here the neat internal Port Plus Jar makes the

and it leaves

the PCMCIA slot spare. It's the only solution for an A1200 tower setup. My only real reservation with

My only real reservation with the Port Plus Jnr is that it should be cheaper for the tiny PCB with stock components. Otherwise this is a faultless product and essential to get the best speed



out of the Internet. Get it.



## Viper 630

- Price: 4Mb @ £115.95 8Mb @ £129.95
- Developer: M-Tech Supplier: Power Computing

### © 01234 851500

he Amiga's old 68000 CPU is really showing its age these days. A600s have been pretty much stuck with it. There has been one option in the past, the hard to install Apollo 620, but now Power Computing step in with this more ably meaty 40 Mhz '030

The Viper 630 piggybacks onto the 68000 CPU and comes in 4Mb or 8Mb versions with a 40Mhz

Although not as troublesome



▲ Viper 630 speeds up an A600 by 900%

as the Apollo 620, fitting isn't easy. The metal shield over the board covers the cradle sockets so you'll need to move your internal hard drive, and probably have to buy a longer cable to do it. A capacitor situated next to the CPU gets in the way of the socket, and although it has a corner shaved to give space for this, you may have to shave a bit more. Even then, the front of the board is free floating and has a tendency to drop chip. There really ought to be

some support supplied, but insert The '030 in this one is a pretty 020 and wipes the floor with it in terms of speed. As the AIBB tests show, this card pushes an A600

to levels '030 cards. A600 to

speeds. In terms of value for money, the of offers thrown in, including a tenner for the brilliant Wordworth Office 6 on CD. Power will sell you a cheap FPU to go with the board too - highly recommended

for maths intensive software. We have some reservations about advising people spend money expanding an A600. If you are certain that it is all you'll ever need for your 600 then great. If

you want to go PowerPC one day you'll have to get an A1200, and given that simi lar spec boards for an A1200 cost

£25 less and are 10 times easier to install, you should seriously think about ultra cheap second hand A1200s instead. Andrew Korn

## Viper MkV 1230/50

- Price: £139.95 Developer: M-Tech
- Supplier: Power Computing © 01234 851500

he most powerful unit in Power's current line of budget accelerators is the Viper MkV which runs a 50Mhz '030. Unlike the other cards in their current release range, this one sports a





▲ Top is integer performance, bottom is FPU.

pete against the now, really cheap Blizzard, the Viper needed a gimone - a built in SCSI2 interface

adaptor and Breathless. An extra £10, includes an excellent office rent recommended price with total of £183. The software bundle from Power is excellent value, but In operation, the Power board

is fine. One ran happily throughout the World of Amiga Show when it showed TFX to the mass es without any sign of falling over lent, FPU tests ran about 2%

Viper, although less system. In

> How about SCSI? The Blizzard is a DMA implementation, the Power version isn't. In practical terms this means that it is a little slower. Tests showed that it was perfectly happy to run a Zip drive at a normal 1Mb/sec, although ultra fast hard drive access may be beyond its reach. Dire warnings accompany the poor software installation, but the SCSI was easy to get working.

This is a good board. It isn't up it wins on price, particularly given that UK prices on the Blizzard are



set a little high If you could use the Wordworth 6 Office CD, then chuck in the tenner and you have a genuine 24 carat bargain. The Blizzard's speed benefits are minimal compared to stepping up to an '040 card, and as a complete package Viper does the job. Andrew Korn

## Magellan Opus 5 AMICA SUPPRISTA



■ Price: £49.99 (5.0 upgrade £29.99) ■ Developer: GP Software ■ Supplier: Wizard ② 01322 527800

### GP Software's latest version of the Amiga's favourite directory utility has arrived. Does Magellan have anvthing new to warrant an upgrade?

ince Directory Opus several years ago, it has remained the most popular commercial disk filing utility for the Amiga. However, filing utility and a general operatwith the addition of the controversial version 5. On one hand the

to get to grips with the multi 'lister' approach rather than the simnle source/destination we all came to love from the past Every Amiga user should be

familiar with standard 'two lister on - although some confusion surrounded the previous version of Opus 5. Designed from the outset to actually replace Workbench glance Opus 5 looked just like names appear just like an 'ordinary' directory utility. All of the as defining buttons, but with the

The advantages, providing you could deal with the new system, was that you were never kept waiting, Unlike Workbench, it was some other operation from one window and then carry on from another. In reality, Opus 5 had some teething problems with being a Workbench replacement that assumed Workbench was Workbench. The result was that it mostly needed to be run side by side with Workbench. Having two Workbench-like screens is pretty

### Re-incarnated

replaces the old version, is Opus 5 Magellan. This attempts to solve the Workbench replacement issues once and for all. Firstly, and this won fans at CU Amiga right away, Magellan will operate on tions. By pressing a hotkey, the active lister reverts to Workbench mode. You'll see icons again but will snap to the real Workbench size. Great for anyone making floppies and CDs for use by people who don't have Opus, as we



Look at the lovely Newicons support in Opus Magellan, it even got the window size right

know that the icons will appear in had to use Workbench to do this. Also on the icons front, the has been integrated into the pack age. Newicons caused some problems in the past but now that

Newicons under Workbench. It's. Great for fixing MagicWB icons that look awful with transparency Magellan also adds some really nifty functions for defining regions the priority for sorting them. In this way you can organise where drive icons will appear and gain easy access.

Magellan has also added the great function of creating an icon for an internal Opus command, thereby, you can make a 'copy icon on the desktop. Highlight the

files you want and click on the copy icon and away it goes. You There's a new hidden option which allows the hiding of drive icons that are 'bad' so, for examdisk is inserted and vice versa.

### FTP Net mania

For Net maniacs like myself, the second greatest change to Opus being very slow and necessitating an edit to configuration files in order to change the settings. This area has received a lot of attention and Magellan now has extremely good FTP support. It also has a very nice address book complete with the preferences that you would expect to find in an FTP client and it's just as fast works better being inside the site in the address book and the files on that site will appear in a lister ready to use. It's now possi ble to use the FTP module instant string gadget at the bottom of a

The right mouse button pop-up menus (which appear right next to your mouse pointer a la Magic Menus) have seen some additions: Filetype specific options

lister, a helpful addition

such as 'open' and 'open with' copy to df0:, ram: desktop and so on. To save on space, it's possible to define a button and then create





a bunch of 'start menus'. These will appear by right mouse clicking over the button so that pop-up menus appear. A great desktop space saving option.

Another new feature to Magellan is the Desktop Folder. Those familiar with Macintosh and PC operations will recognise this function. Files can be dragged onto the Opus desktop itself and they will be essentially moved or copied to a separate directory. It's even possible to ry and browse it directly from a lister. The default action is that when a file is dragged to the desktop, a pop-up menu appears asking if it is to be copied, moved or simply left out. It's even possible to change this to a default setting so that the pop-up menu never appears.

### Small changes There's a lot of other small

changes to Magellan; an optional space gauge which shows how much space is used on the drive, a lister is viewing, icon label splitting for long names, CybergraphX support for general 24-bit dis-

play/speed and dragging of icons; more ARexx commands, improved compatibility with MUI, MCP (allegedly), new script system for disk insert notification and a re-written and faster text viewer.

Ultimately the Magellan wesion is a significant upgrade in all
areas. However, if you were just
using a file manager for day to
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With this version I can resolutely recommend Opus 5 Magellan as a viable Workbench replacement. Addressing the key issues of Workbench icon positions, Newicons support and a dozen other asked for features, has enhanced the system no end. If you're a power Amiga user who desires a complicated and powerMagellan in action. Here's some parallel copying and a Workbench icon mode window.

ful Amiga enhancement package, then Magellan is it. The core issue of Opus 5.x being a little radical with a steepish learning curve can be resolved if you first try out Opus 5.11, given away on the May issue of CU Amiga.

### Development There have been complaints on

the upgrade price and some indication that users of Opus 5.5 are going to stay put because of the cost. This is a decision for you to make and not just on the individual features mentioned here. There is the fact however, that continued support of the product means continued development, which we hope will include a PowerPC version for the future.

Powerfv. Version for the future.

If you're using Opus 5.11 you'd
be insane not to upgrade now, as
Magellan is much improved and
has matured into the perfect
Workbench replacement. I've tried
not to trumpet this product too
hard, as it may not be for you.
However, if you're remotely willing
to put in the effort, there is no
doubt in my mind that an Amiga
with Opus 5 Macellan is the most

powerful and versatile computer and operating system combination in the world. It's fast, feature laden (more than you're ever likely to need), a programmer/script writers' haven and quite possibly the most highly developed item of software the Amiga has ever seen. CU Amiga SuperStar?





Andrew Korn and a mixed bag of goodies this month that include; a Yahtzee clone, a brilliant Arkanoid game and some turkeys to avoid...



### **Yahtchoo**

### Dice game

- Available from: Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26 2SH
- Tel: 0161 723 1638
- Price: £1 plus 75p P&P per order.

There has certainly never been any shortage of this AMOS Pro conversion is pretty well regarded as one of the better ones. The aim of this game is to achieve the highest score from roll your five dice and score as high as possiwinner is the player who completes their conagainst an opponent or just by yourself and try to achieve a high score.

Yahtchoo is a solid enough implementation. Well presented with no unnecessary complications and no particular omissions, this will satisfy anyone looking for a Yahtzee game. The only criticism I have is that it isn't OS friendly an inevitable consequence of a program writ-



### **More Ants** Game collection

■ Available from: Underground PD, 54

■ Tel: 01702 295887

■ Price: £1.50 inc PSP.

have been randomly buried around the gar-

lenger take each other on in a race to be the

ry. It's fast, insane, and hysterically funny.

## Miggybite issue 11

### Disk magazine

Available from: Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26 2SH

■ Tel: 0161 723 1638

■ Price: £1 plus 75p P&P per order. Hey, guess what? Viscorp have dropped out of

the Amiga buyout deal, and a Canadian comfavourites. I guess if you download a disk mag from a PD library the news may be reasonably up to date. Never mind, there's plenty of fairly obscure news you probably won't have heard atory humour selection, the star of which has to be the OJ Simpson trial in the style of Doctor Seuss. The magazine is well presented with a tool

bar at the bottom of the screen which allows

easy navigation and includes useful extras like a find facility, a glossary of Amiga terms and a gadget to show associated pics - although the only pics in the mag are some screen shots for the review of the Dune games

The best thing about mags of this type is that they are very interactive, meaning that the readers can get involved. This title is very lively, has a lot going on, and gives a real sense of a community of Amiga users. There's a lot to read and if you want I'm sure the editor would be glad for you to join in the writing too.

### **British Manager**

### Footie management

- Available from: Saddle Tramps PD, 1 Lower Mill Close, Goldthorpe, S63 9BY
- Tel: 01709 888127
- Price: £3.95 plus 50p P&P.

Eng-erland 2-0 against Poland, 2-0 against Italy. 1-0 against Tank, 1-0 against Tank

Even so, it would have done pretty well as a commercial release in the past. It has many things you look for in a footie game such as a transfer market, stadia, little animations of the goal-mouth action and the unique selling point of a combined British league (so you can give Rangers and Celtic more of a challenge by playing them in the third division). Unfortunately the lack of tagires and

player stats leaves you with little to do. My major bed about this game is that the player names are made up. Can anyone find signing. JBrowne for Shadwell Flown half as much fun as signing Juminto? Several large much fun as signing Juminto? Several large mach fun as signing Juminto? Several large much fun as signing Juminto? Several large much fun as signing Juminto? Several large much fun as signing Juminto? Several large work of the signing signing signing signing work of the signing signing signing work of the signing signing upon signing signing guess II was to fire firthés 1.2 ★★★★

## Blue Guitars

### Music medley

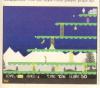
■ Available from: Underground PD, 54 Carmania Close, Shoeburyness, Essex SS3 9YZ.

■ Tel: 01702 295887

Price: £1.50 inc PSP

You aren't expecting this to be any good are you? Everybody knows you can't get decent your Everybody knows you can't get decent yourar mods. It's really quite simple. Take disk from PD library envelope. Hold with label pointing up and metal slidey thing pointing pointing up and metal slidey thing pointing towards computer. Slide into disk drive slot on computer. Let software boot up. Listen for 35 seconds. Remove disk from computer and feed to not cronocifie.

boot up. Listen for 35 seconds. Remove disk from computer and feed to pet crocodile. Well, this one is good so there's my review scuppered. The CD style mod player pops up





and out rip those bluesy guitar riffs. There are four mods on this CD, three by Chaos / Syn, one by Xtd / mystic / TRSI. To my undying

### Yeti

### Game

■ Available from: Underground PD, 54 Carmania Close, Shoeburyness, SS3 9YZ.

■ Tel: 01702 295887

■ Price: £1.50 inc P&P.

Oh my God. I thought this sort of thing was covered by the Geneva convention. The Amiga is a multimedia machine capable of doing all sorts of impressive graphical feats. This does not mean that the Amiga should be producing games of a similar quality to a Spectrum programmer with no artistic talent but who can throw in a few extra colours.

You have to guide a little elf in a Santa cap around a network of ladders and platforms whilst avoiding snowballs in a quest to rescue his kidnapped love. Yes – it's a particularly crude version of Donkey Kong. Yetis are also known as abominable snowmen. In this case the snowman bit is superfluous. ★★★★★★

## A Poke in the Eye

### Demo

■ Available from: Underground PD, 54 Carmania Close, Shoeburyness, Essex SS3 9YZ.

■ Tel: 01702 295887

■ Price: £1.50 inc.P8P.





### Quatermass Experiment

### Disk mag

Available from: Saddle Tramps PD, 1
 Lower Mill Close, Goldthorpe, Rotherham,
 S63 9BY

■ Tel: 01709 888127

■ Price: 80p plus 50p P&P

Another disk mag although this one is rather different to the normal Amiga oriented affairs. Although there is one article about an Amiga magazine (not us!) selling their subscribers list to a PC services company, the content consists mainly of science fiction short stories.

The opening sequence is reminiscent of the start of Star Wars – the most intriguing and amusing start to a diskmag I have seen. It made me want to find out more. The front end follows the same space theme with all the gadgets in the shape of planets, so that the Sun is 'quit' and Judietrie is' rinit document'

The stories are a pretty varieble brunch, par for the course for annature fiction - some is pretty good, some is pretty dire. But there's polenty of stuff to read here, and if you are a bit of an SF fan, you're bound to find something or like. There is some decidedly adult content in here, so if you are easily offended be caretured to the stuff of the stuff of the stuff or the stuff of the stuff of the stuff of the stuff or that s'\*! becomes s'\*! Here, we seem to have one of those at CU too! \*\*\*\*Exp.



As you get out your new C compiler and start to program utilities, don't forget to send them to Andrew Korn. He needs them after seeing this month's poor collection!

****	Totally blinding
****	Good
****	Average
****	Substandard
+++++	Oh dear

### **ACI Workdisk**

Utilities

\*\*\*\*

Available from: Roberta Smith PD, 190 Falloden Way, Hampstead Garden Suburb, London NW11 6JE

■ Tel: 0181 455 1626

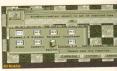
■ Price: 90p plus 50p P&P

I just don't get it. Unless this really is some kind of of a poor joke... It's just another compilation of utilities, but one which seems to

fundamentally imply some form of usefulness. This lot is almost useless. So there are things like But then, you can do this with Zips anyway!

Then there is Break, software which slows down your Amiga. Right. PPC? Nah, these can't recognise the supplied quotations file. There are a couple of things which might be OK but they just managed to crash with every Amiga I tried them on. Other programs were can find on just about every utilities disk.

looks reasonable, and AmigaT is a hardware tester command which does the job perfectly, tions out there, and almost all of them are better than this. \*\*\*\*



### AnswerBack Answerphone mods

■ Available from: Underground PD, 54 Carmania Close, Shoeburyness, Essex SS3 9YZ.

■ Tel: 01702 295887

■ Price: £1.50 per disk, P&P inclusive.

Here's a strange one: a disk for telephone answering machines. You've probably seen tapes on sale offering pre-recorded answerphone messages. If you don't have the imagination, mimicry skills and sound processing equipment to produce something particularly original/cheesy, you can borrow someone else's. Why not do the same thing on disk?

### GFXLah24

24-bit image processing

■ Available from: PD Power, 15 Lovetot

■ Tel:: 01374 150972

■ Price: 50p per disk & 75p P&P.

As you can guess from the name, GFXLab handle the usual everyday functions such as converting file formats, but also has a very dow to get an immediate idea of what is

you can apply series effects to an image to

have a reproducible result. A couple of ARexx painting effect, the other is a catalogue maker.

sions of GFXLab24, this is a standard edition, major image formats, PNGs and GIFs included, has pseudo virtual memory, and runs at you missed out on the cover mounted Image Studio (CU Amiga May'97), then this program is a very good stand in. \*\*





## WORK, REST AND PLAY, PLAY



seat belts and be prepared for an experience like you've never your Amiga. Flyin' High is here and it takes you to a new dime icing Games. Step on the gas and race over fully textured and crazy tracks, on asphalt, mud, field paths and slippery ice.

On an 68030 Amiga the games great fun. Playing with 4 players on a 68060 is really impressive. ial Track Construction Kit will be released in the future!

Amiga, MC68020, AGA-Chipset, 4MB Fastram, Hardd 030 running with 30MHz. 4player adaptor supported.

Amiga CD: £29.99 Amiga Disk: £29.99

gifth cente investigations' is a new graphic adventure for the Amiga, based on the classic clean hit style games. This has explosed still on the product of the classic communicate with the spirit of a sarcastic man. A friend, who white of who has the communicate with the spirit of a sarcastic man. A friend, who white of who has the product of the The lack of control that the detective has over the carzy psychic gay, and the fact that the spirit, generates many carzy, funny situations which doesn't help then to make much money.

Amiga CD: £29.99





it gets dark, the living dead begin ir celebration on the graveyard. your way through swampy tracks and dark tomb monuments. Rated 92% £19.99

Marblelous

EDIT CARD ORDERS WELCOME

ina Entertainment - Epic House (cu), 43 Akers Way, Swindon.

## 10000 30000000000000000

There are four sampled messages on the disk, probably sampled from one of the aforemenyou go. One offers a voicemail system for the last a fairly straight message except it's read

by someone pretending to be Michael Bolton. the early years of the answerphone, but time have noticed that novelty phone messages are not a novelty any more. This disk does the job it sets out to, and appeals in a sort of retro early eighties sort of way. Buy it if you think filofaxes are pretty damn cool. ★★★★

## **HardMods**

### Patch programs

■ Available from: Underground PD, 54 Carmania Close, Shoeburyness, Essex SS3 9YZ.

■ Tel: 01702 295887 ■ Price: £1.50 including P&P

\*\*\*\*

This disk's files are DIY modifications, mostly directory. They vary in difficulty but show how PC gamepads or make MIDI connectors. The easiest job is a modification to the speaker inside an A4000 involving adding a simple little cardboard baffle. The most complex is proba-

bly the DIY sound sampler - still pretty easy

for anyone handy with soldering irons The topicality of some of these files is questionable - the audio filter fix for A1000s, A1200 tower conversion guide - about as topical as subjects get at the moment, judging by like their Escom A1200 floppy drives working again. A bit specialised, but it does the job.



### The Computer **Reference Guide** Reference guide

■ Available from:Robert Hall, 7 laurel Avenue, Fawndon, Newcastle upon Tyne, NE3 2BP

■ Price: £3.50 plus 50p P6P

Ah... A comprehensive guide to computing. What a good idea. Some kind of easy reference tome which would cover all sorts of questions about computer hardware, software, terminology even. It could be presented as a nice easy AmigaGuide. And wouldn't it be about the technology of the modern world?

author Robert Hall doesn't know much about instance, that 1k is 1024 bytes on PCs, and seen with Pentium processors because the two are incompatible - I say just try buying a Pentium computer without EDO memory.

Presentation is something that surely can't ment. Wrong. For some bizarre reason Robert Hall has used a Nucleus menu system designed front end, which offers you the option to read the guide or not. An icon for the guide and Multiview would have sufficed and been ten times simpler. To give this title some credit, the software

section is quite reasonable, and if you want to know what the difference is between a laser and a bubblejet printer, this will tell you. along with chain, barrel, thermal, and liquid crystal rather popular dye sublimation type. So, if you technical errors, this would be rather good. Wait for an update. ★★★★★

(minute) Life | Six | Mirror | Erms | Erms | much thin printer the character (interes) are femand uting a major of face of major more than the character of the printers. Some is made, here a face at the large and tending and early yet and its about it.

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Letter is swipe to make and map ton't it! Whe observing whom printed the raper are formed time this. the it's represent the date to server on

### **Best of the Aminet**



ware. To kick us off this month, let me point you in the direction of gfx/aga/sork.lha (317k) where you will find the best Amiga very fast, has all sorts of rendering modes. too. Apparently the author used our cover scapes, too. If only there was a game in

there! Talking of game misc/emu/DarkNESs.lha (23k), claims to be an NES emulator which runs 70% of NES games. SWOS fan? Go to game/data and look at swosafr.lha (10k), swosaus.lha (2k), swosbra.lha (7k), swosusa.lha (3k), swosesp.lha (13k) for some updates

If you find your modern is always covered with disks and papers, maybe you should download comm/misc/modemd.lha (29k) which displays the status lights on your Workbench. You can do this while listening to a pretty odd piece of digeridoo trance you'll find at mods/med/bc-goann.lha. If you would prefer something to read, you might want a look at docs/mags/aiov1.lha (13k) a small but well formed Amigaguide (some nicked from CU, bad boys, ask first).

### Eye candy time

Eye candy doesn't come a lot sweeter than demo/aga/slc.sweet.lha (598k) for a tunnel and lighting effects demo with a sense of humour. Men in Black after you? You've obviously spent too much time looking at pix/trace/abduction.lha (94k). Sticking to a science fiction theme, check out pix/trace/dune.jpg (73k) for an excellent render of a giant Sandworm from Dune rencourse you have. Pity the Amiga doesn't

have a find facility as good as the Macintosh built in find file. It does now thanks to util/wb/macfind.lha (77k). Remember - if you don't have Internet

access all this software is still available libraries offering this service who want to be



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## **CD-ROM Scene**

There's such a lot of stuff that you can get onto a CD-ROM, but it's not always great. Andrew Korn cherry picks this month's crop.



AGA Experience

■ Available from: Sadeness Software, 13 Russel Terrace, Mundesley, Norfolk, NR11 8LJ

■ Tel: 01263 722169

■ Price: £14.95

Anthology CD; like the see peat things, but presentation to be noted and different presentation to be noted and different presentation to be noted and different presentation to the present you with their own mean system, office special property configured Worksbench front end approach. Annihe dates follow the former part, CUCDs follow the latter. Sederiess have found a middle ground with a perfectly reasonable Magnetic presentation of the presentation of the presentation of the presentation of the displayer when necessary and includes a guide in the form of a very elser of works of the presentation of the presentation

The HTML index page has many of the pictress in 'click to where 'full size' galestess of cold lines to valines or major with the cold lines to valines or major major. There's even in a click to pieve and cold wheel's internal shell system to activate demos from its demo cold-celor. This feature unfortunately deemst can still excelor. The setterus unfortunately deemst work, but it's a nice idea. The demos can still excelor. The setterus unfortunately deemst can still excelor. The setterus unfortunately work to set the consection of the cold celor in the celo

Amiga Report from CU Amiga's US correspondent Jason Compton. All in all, this really is one of the best discs of its type. 91%

## **Epic Collection 3**

■ Available from: Epic Marketing, 43 Akers Way, Swindon, Wilts, SN2 2NF

■ Tel: 0500 131486

■ Price: £19.99

Apprine would thick there was some kind of comparing at work here. Epic and Scieness both producing number three in their respective series of anthology discs at the same time? This has just got to be a set up. Or conspiracy has to be suspended, supposed to the series of the series

three is plenty of accessibility through well placed software. Our cover CDs, for example, let you view a picture by clicking on it. Epic has an icon for VT which calls a file requester to select the files locally. This is simpler but works perfectly well.

The spread of software here is very general so there's a lot to keep any Amigues a lot to keep any Amigues cellection on this disk is the music drawer which contains over 200Mb of assorted mods and samples. The mods contain a lot of material which is unlikely to turn up on many other CDs, if only because there are a lot of blatant breaches





of copyright. The pics collection is sizable to and presented by subject with index pages. This makes them very easy to browse athough Epic, unlike Sadeness, has not retained test files with pics where supplied. Thus credits for pics are missing, giving the impression that Epic have just dumped any picture on, regardless of credit for creation.

The Epic Collection 3 is to a large extent shovelware – an inevitable result of the approach Epic have taken. Most of this disk appears to be in sampler mode. Thus, there are small (vell relatively small, this is a CD) selections of what you might find in an Epic sounds CD, an Epic Clipart CD, an Epic 3D objects CD and so on.

objects UL and 30 UL.

If you collect this, you probably need something one to keep your interest considerable they not be seep your interest considerable they wind the seep that they will be the seen to be the consists of over 100 DMS disks of ducational software with a click to expand interface. If you are always looking for educational software you'll find this an invaluable resource, if not, then it has nothing to make it stand out from similar collections. 25%



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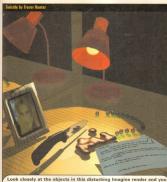
# **Art Gallery**

Dab hand with a brush? The Damien Hurst of Hackney? Send it to:

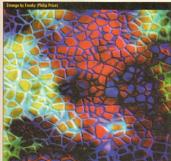
Art Gallery, CU Amiga, 37-39 Mill Harbour, Isle of Dogs, London E14 9TZ.



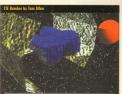
This black and white image is all about flat shapes and 3 dimensional spaces. It is heavily reminiscent of M.C. Escher, but Hungarian Neméth, the original creator of this fine picture, might point to the work of his revered countryman Moholy-Nagy, whose use of contrasting curves and hard degets is also similar.



Look closely at the objects in this disturbing Imagine render and you will notice that they float just above the table surface, lending this image an almost surrealist nightmare quality. Strong stuff.



Is it a Workbench backdrop or something from a 70's record sleeve? This gives a new meaning to crazy paving. Don't step on the cracks or you'll end up in the Twilight Zone.



13 year old Tom Allen rendered this Star Wars inspired pic in Cinema 4D 2. Needs work on the textures, Tom, but the composition is excellent.

Animal by Freaky (Philip Price)



Part human, part fox, all psychedelic. Another example of what Ppaint, Image Studio, Photogenics and Dpaint can do in the hands of this strange individual.



Zoltan uses Lightwave and ImageFX to give his realist renders that moody edge.

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Roll up your sleeves and get your hands dirty in the Workshop. Whatever you want to do with your Amiga, you'll find it covered by our own Amiga experts...

#### 76 Imagine 4.0

Part eight of our definitive tutorial shows you how to get a car racing and deals with those unsightly and embarrassing skid marks...

# 80 C Programming Tutorial Want to quickly learn how to program in C? Learn one of the world's

most widely used computer languages, starting this month.

#### 83 Surf's Up

When the Net God speaks, it's usually in hexadecimal. We translate this month to find that WOA goes online, Java's coming and more!

#### 84 Wired World

The Internet is the single biggest repository of Earth's knowledge. We show you how to find any information you want, quickly and easily.

#### 86 Surf of the Month

Forget rhyme, reason or rationality, this month we look at the wilder and wackiest wibblings on the Web.

#### 88 Desktop Publishing

Part two of our DTP series using the full and free version of Professional Page 4.1 given away with the May issue of CU Amiga.

#### 94 Q+A

Do you have questions about the Amiga? We are Amiga professionals and we still do! All the subjects under your Amiga covered...

#### 97 FAQ

Big questions can only be asked about big issues. This month we ask of the Internet – 'Is it all hype, or a real resource with real uses?'.





Desittop Pablic

# ulars

A120

#### 98 Backchat

Vho says that Amiga users don't have a voice? This is the place where you can talk to all of our Amiga owning peers, and swop your views, hints and thoughts on all things Amiga.

#### 02 Subscriptions

Our subscription offer has been extended, so if you're not on our subscription list, then now's the best time to save money, get free gifts and guarantee your copy every month!

#### 03 Points of View

How many magazines can look back at things they've predicted in the past, show they were right and just continue to make informed debate? That's right, there's only one – C

#### 104 Back Issues

Take advantage of CU Amiga's amazing back issues, full program cover disks, tutorials and much, much more! But hurry, we're getting pretty low on some issues!

# **Imagine 4.0**

PART 8

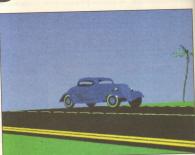
More advanced animation tips and tricks, including

avoiding any of those embarrassing skidmarks!

ast month we looked at making an object follow a path. This is quite easily done, using the Align time but in the Action Editor. We cheated guide a bit, as a supple of the control of the

Here's an example of the problem. We have a road object (created in a paint package as a simple drawing, and mapped to a plane) and a car which we want to move along the road. If the road was strainfold line everything would stay simple and we wouldn't have a problem. We could set the stort and end frames and just let the car green owth it. However, you can see an example of let on with it. However, you can see an example of long when the problem is the problem. We could set the stort and end frames and just let the car green on with it. However, you can see an example of long when you will be problem.

This method is fine in plenty of cases, and you can even make the car accelerate by various amounts or brake by altering the speed up and slow down times from the Action editor. When you move the camera down to ground level and make it track the car object, you can get a very pleasing and professional logor effect, as shown at the fair right on page 77.



However, let's move on to a more advanced example. This time let's put a bend in the road. This present two separate problems, but let's look at the more obvious of the two: how do we make the car move around the bend? We could potentially create lots of tween points, however, this would be very time conjunts, to where, this would be very time con-

suming and it probably still wouldn't look right. We therefore use a Path object – a smooth curve which we can trees until if s in exactly the right position at every point. Our car object can then follow the path and keep between the edges of the road. Here's how to achieve this effect in five easy stages...



As shown above, create a bitmap for the









▲ When an object moves in a straight line, we only need to set the start and end positions, and let Imagine do the rest

road. Use your favourite paint program, or if you are a little more adventurous, scan or digitise a suitable picture of a real section of road. Here's one which I obviously spent hours drawing. You'll be surprised how well a simple becomes three dimensional



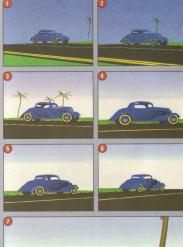
▲ Create an object from the road image. The same dimensions as the drawing itself, and then use the brush mapping texture to apply it. The plane will now be your section of road, ready to use in your scene.



▲ Load and scale all the objects in the Stage Editor. You will probably need to adjust the size of the car and the road objects to match, and if you want to add any buildings or trees you'll need to scale these as well. Remember to position your camera at a good vantage point and to add a light source object.

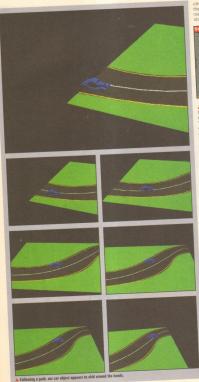


▲ Create a path object. You can do this from within the Stage Editor, from the Object/Add/ menu. Add an open path (a closed path is an orbit, where the end and start points are the same). You can now edit the path by selecting Edit Path from the Mode menu. You'll see a tiny pair of points: move and rotate these like





▲ Let the camera pan across, locked to the car to keep in the centre of the screen. Trees help add a sense of depth.



other objects (use Move and Rotate). Drag out the path to roughly follow the curve in the road mapping. You'll be asked to save the path object as you progress, so do it.



From the Action Editor, set the number of frames to 50 and adjust all the objects so that You might want to align the camera to the car object: to do this, delete the camera's existing be given Track to Object as a choice, and asked to enter the object you wish to follow. Now the vital part: delete the car object's one. Make sure you select Follow Path and

That's all there is to it! The car will now folwindow, you can actually load the road bitmap into the view as a shaded backdrop image. pixel accuracy. Anyway, in the grabs to the left see the next problem we need to overcome.

#### Skid marks

If you look closely at the grabs, you will see that the car object appears to be skidding around the bend. In fact, it always faces exactly the same direction and this causes the rather unrealistic motion. As you might expect,

new one, and this time select 'Align to Path'



corners. Probably.

You won't have to enter the name of the path, as it will be assumed you are referring to the path which the object is already following.

The purpose of this option is to keep the car object at a tangent to the curve, and so enable it to always face in the right direction. However, when you switch it on and return to the Stage Editor you might discover that you object is facing a seemingly random direction, as shown in the screengrah below.



▲ If the object's internal axes don't line up with the direction of travel, the object will align in an unexpected way.

Don't panie! This is simply because the car's internal axes happen to be oriented in a different direction. In general, you want the object's Y was to line in the direction of travel. To change it, go to the Detail Editor and load in the object. Then rotate the axis using Shift-R instead of IR, save the object and return to the Stage Editor. You may need to perform several rotations until all the three axes are facing the right way, but do to net at time to

Finally, the series of screens that appear on the immediate right of this page, show the final result of getting the car to follow a path, and also to align to the path properly. You can see that the camera follows the car as it first heads directly towards it, and then veers away following the road.

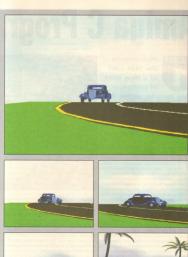
#### Up and down You might be wondering if it's possible to

make the car go up hill, as well as around connars. The answer is yes; you can change the path in the vertical as well as horizontal directions and so the car can be made to travel up and down. By default, the car will face up and down as it goes—there may be some cases own as the car will have been careful as the temporary from the careful as the careful as the temporary from the careful as the careful as the temporary from the careful as the careful as the temporary from the careful as the careful as the careful as the horizontal –as if it were flying over a bump in the road for example.

The remaining options in the Alignment timeline are worth trying too: they cause the object (or group) to bend to follow the path. It's a great comic effect: the car will appear to change shape as it moves around. If you want to animate bouncing beams of neon or a magic carpet, or the hands of a clock: this is the option you need.

There are plenty of other tricks to consider too. We'll get a chance to look at some of these in more detail in next month's CU. 

John Kennedy







▲ Part of the car animation. See how it changes the direction it is facing as it follows the path. New all you need to do is animate the wheels as they steer the car and add some sky and clouds to the backdrep.

# **Amiga C Programming**

Welcome to the first part of a new kind of programming tutorial series. It's designed to cut directly

to the chase. So dive in and say hello to some real world applications!

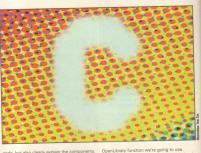
he aim of these tutorials is to introduce some of the key parts of an Amiga program, ranging from opening windows to interprocess communication. In this first part, we'll start off with the normal building blocks, but then quickly throw you in at the deep end (in terms of C coding). Here you'll learn how to open a window and write some text in it. Don't worry though, because the hard work will be worth it: the frameworks we create are present (in some form) in all Amiga programs and we've even included each example on the cover disc so that you can simply import the file from disc and begin to work on it immediately.

#### The shallow end

The canonical tutorial example is Hello World, filename 'helloworld.c' (on the cover disk). We'll use this as our benchmark for deciding whether to progress: if you don't understand some of the real basics before moving on.

Luckily, there are a lot of really good books on C aimed at beginners, but very few of them present any kind of Amiga bias. Straight from the horse's mouth comes The C Programming Language by Kernighan and Ritchie (Prentice Hall), a book that many seasoned profession als cut their teeth on. However, it's wise to look at a few books for beginners and maybe choose the one with which you feel happiest. On the other hand, if you're just after a good reference book on C then you could do an awful lot worse than C - A Reference Manual by Harbison and Steele (Prentice Hall)

A lot of the stuff that you have to learn for C before you can start to actually write programs is complex and difficult. We won't be troubling you with that, as we want to dive right in and let you start to work with programs right from the beginning. This means that some of the more complex coding will be mastered by you learning it, 'parrot fashion'. To do this, we have supplied a lot of routines and programs listings on the cover disk. These are annotated files that not only give you the



code, but also clearly explain the components. This way a lot of the idioms (like opening and closing resources) are heavily reused. However, there's also a lot of things for which you really need to study the Libraries and Autodocs volumes of the ROM Kerne Reference Manual by CBM Amiga (Addison-Wesley). Looking at the standard header files is a great help, too. Don't let this put you off: we'll be seeing enough general stuff to make some decent steps forward.

#### Depth: six feet

Right, hold your breath: we're going to be using functions from the Amiga's Intuition library. To do this we need to first call OpenLibrary (with the argument intuition.library, in this case) so that the Intuition library's functions are accessible. This first example, filename 'basics0.c' shows how

If you run this example you'll see it does nothing: the program's structure is the interesting thing at this stage. The first line is an #include statement, which adds the definitions of the structures and constants for using libraries. These come from the standard Amiga system header file libraries.h in the exec subdirectory of the includes directory of your C compiler. We must include this header to define the Library structure, as we'll be using it soon.

The next significant line is another #include. This includes another standard header file: exec\_protos.h from the clib sub-directory. This file contains 'C prototypes' for all the functions available in the Exec library and, in particular, it includes a prototype for the

Next up is the declaration of the global variable IntuitionBase. This is the variable where we will store the pointer to the Intuition library base (i.e., the collection of routines in that library). Because of the strict type system in C.

we need to give the variable the correct type, which is the type of the result of the OpenLibrary call. There's a subtle issue here: we aren't free to pick the name of this variable. It must be IntuitionBase, with precisely that capitalisation, and it must be a global variable. This is dictated by the Amiga system file

#### Libraries

The Amiga system routines are stored in a standard set of libraries', which are stored in the KickStart ROM and the Libs directory of your Workbench disk. The most fundamental library is the Exec library; in fact, it contains the OpenLibrary function which is the cornerstone of making use of library functions. To use a library's functions you must obey a few rules, and this bears an analogy with a real library. The first thing to do is open the door, using OpenLibrary. Once inside you can make use of the reference material (and call the functions in the library). When you've finished, you need to close the door behind you using CloseLibrary. The Exec library is an exception to this: its functions are available without having to first call OpenLibrary. Things would be a little tricky if this weren't the case, as OpenLibrary is a function in the Exec library.



A Helle World: opening windows using Amiga C, it really isn't as hard as you might think.

amiga.lib (or the equivalent for your compiler) which will be linked with your program. The naming scheme for the standard libraries is pretty obvious and we'll be meeting the common ones, so this isn't a big problem.

mod ones, so this eart a one pictoless.

The bear set of the single lump of real code: the mining lump of real code: the main function. This is the entry point of every C program; every program must have one and it's where the action starts. The declaration void mainly says that the start point of the single lump of real code: the main function of the single set of the

#### Initialising

The first line of code in main initialises the IntuitionBase variable using an assignment statement, =. The OpenLibrary call tries to open the Intuition library, and at least V36 of that library (i.e., OS2.0 or greater). If the library cannot be opened for any reason (e.g., the program is being run on an OS1,3 machine). then OpenLibrary will return the special value NULL. If our program is to behave gracefully (and not crashl) in this circumstance, we must check the value now stored in IntuitionBase. We can call Intuition routines only if this value is not NULL, so the next piece of code is an if statement that performs exactly this check (!= can be read as is not equal to'). This is our first taste of the massively important topic of error checking - almost all library functions you call will need to be checked for errors. and your program needs to be able to cope with any errors in a reasonable way. For our simple example we will stop if the library can't be opened. A real program might want to tell the user about the error before terminating.

If the Intuition library was successfully opened then the program executes the following body of the if statement. The first source line is the comment Do something, and this is

#### **RastPorts**

Drawing is generally done via a RastPort. Windows and screens both have a RastPort that you can use with the Graphics library functions to draw lines and text.

where the guts of your program would begin. After the execution of this part of the program comes the cleanup; closing, releasing and elements, closing, releasing and simple example all we need to do is close the Intuition library. The program can then terminate safely. The way the Arniga OS works means that it is vital that your program handles the resources it uses properly Failure to do so may delevie of the programs from mass on the screen of celeve a mass on the screen of celeve a

#### Fresh air

Now that we've whizzed through a lot of the basics, we can open a window (and start to breath normally). This next example, filename 'basics1.c', simply replaces the comment in the if block with some real code. Have a look at the other differences between this and the previous example.

What the new code does is to declare a local variable win within the if block. This variable will hold a pointer to an open window, described by a Window structure. This structure is defined in the intuition/intuition.header file, so we've added an #include line for this near the beginning.

The most significant new bit is the call to Cpentifindowling. The first argument NUL says that we are going to specify the window using jast the following tags. The first tag specifies the left position of the window as being 20. In the rais NVL, left and the data is lower 20. The term is NVL, left and the data is defined in the installation(first) tinn. header filla, the next three tags should be self-explanatory, and well come back to the WA. Flags and WL, DICME The constant TAG\_DONE is defined in the header file utility/tagtismth, so the says the properties of the control of the control of the says the properties of the control of the says the properties of the control of the

Remember that we can't use a library function unless we've given a prototype for the function. In the case of OpenWindowTags we can do this by including the header file

Clib/Intuition\_protos.h.

Now we begin to see a bit of symmetry:
the win variable is error-checked and at the
end of the if body is a call to CloseWindow to
release the window resource. Compare this

# structure with that used for opening the library. Closing the window

The last interesting line is the call to Waithort (from the Exec library). All this does is wait for the window's close gadget to be clicked. The WA Flags tag specified that the window will have a close gadget, and the WA. IDCMP value specified that the program will be told when the user clicks on this gadget (via functions

#### Tag Lists

A tag is a pair of values: the tag item and the tag data. A tag list " is just a list of tags, terminated by the specified late item TAG\_DONE. Any tags specified after TAG\_DONE will be ignored.

#### **Prototypes**

Because C has a strict type system, you need to give a prototype (or a definition) for a function before you can make use of iff A prototype states the name of the function, the types of its arguments and result. Armed with this information, the compiler can spot some of the more obvious mistakes in your programs, so it's well worth the effort.

like WaitPort). These three things together mean that the window will be displayed until the user clicks the close gadget and then the

#### Hello World, again OK, so we've actually got a window to open

now, and it's under the user's control. We'll finish off this tutorial by referring back to the beginning, and greet everyone with a message in the window. The example's filename is 'basics2.c' – it's on the CU Amiga coverdisc.

It should be pretty obvious to you what's happening. We need to use some functions from the Graphics library to do the drawing, so we need to open that library. Again, we use the same structure as for opening the Intuition library. The global variable for the library base is called GfxBase.

The interesting new code comes after the if

check that tests that the window was opened. A local wrisite test is declared to hold the message string. The following line initialises it to be the greently, line with things at a little more too the the greently, line with things at a little more too the greently with the greently and the properties of the window? RestPert to be pen one. This is the normal foreground pen, and zero is the normal foreground pen, and zero is the normal foreground too in the fleetfiver to be (10,60), which is the properties of t

This fairly mundane example presents some opportunities for experimentation. Trying changing the message, the pen number used in SetAPen, and the position in the Move. 

Jason Hullance

#### Next Month

You'll need to be well on top of all these examples before next month's part 2. Absolute beginners will probably need to spend a lot of time with a good book on C, but if you're a little more advanced you might be begging for more things to do. Something to bear in mind is that you can never know too much, and so reading more advanced books like 'C Traps and Pitfalls' by Koenig (Addison-Wesley) or 'Expert C Programming' by van der Linden (Prentice Hall) are a good idea. And don't forget that there's also a lot of sample code on this month's CD (e.g., all the examples from the ROM Kernel Reference Manual').



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**Net God speaks** summer looks like it's all the same. Both for the Amiga and release. What does me? Well, from what telling us, for serious can all begin to take web site. But, assumis true, Java is the future (or at least, \*A\* future) of sion hasn't hap-

pened just vet.

the goodies as

it looks like

# Surf's up!

Making waves this month: free classic Amiga game, World of Amiga goes online, a new Psion site and a PowerUp home page.

Free Amiga Game

ome classics never die. While out of business, others get saved ers and cool authors. Alternate Reality: The City, still considered by many to be the best RPG to date, has been made freeware by its original author, Philip Price. Datasoft, the publisher of AR, has rights to the game, and after found and has made all versions To pick up a copy of the Amiga many), visit http://www.pacificone.com/sean. Emulator alert: The City's sequel. The Dungeon. was never ported beyond the 8-bit machines, but the Atari 8-bit and C-64 versions are available on this web site as well

Online WOA Report
If you didn't make it to the WOA

show and you're looking to supplement CU Amiga's coverage, drop by Thomas Tavoly's page at http://homepage.cistron.nl/--ttavol ylatmosh/woa97.html. Thomas is an Amiga writer who has done a number of excellent European Amiga show reports, and deserves a look. He brings out the





All the latest events surrounding phase 5's PowerPC accelerator can now be accessed thanks to Anders Johansson. Regularly updated and stuffed to the gills with links.

highlights, and there's even a very abstract photo of CyberGraphX author Frank Mariak.

Reliable Psion Site

The rest of the computing world is and halve group to there as her halve group to the extra the control of the Ampa Web Directory to update their resources on a region of the Ampa Web Directory to update their resources on a region of Cut Ampa Web Directory to update their resources on a region of Cut Ampa of their control of t

The PowerUp home page Anders Johansson has taken it upon himself to gather all items of news and significant events surrounding phase 5's PowerPC accelerator program PowerUp; turning it into a superb web site full of information, links and FAQs PowerUp's home page can be found at

http://www.powerup.base.org. As of variing the top news was of the release of the PPC version of the Storm C.complete PPC modules for Art Effect, Personal Paint PPC addonns. Use and news about imagine 6.0 being PowerPC reached. See the Art Storm C.complete PowerPC reached by Storm C.complete PPC with an an enew about imagine 6.0 being PowerPC reached. Exciting stuff? You bet, get down to the PowerUp honois negle and add it to your book marks now.

Haage's web site gets revamp

In German software developer/distributor Hauge and Partner, carries several lab quality developer/distributor Hauge and Partner, carries several lab quality developer/distributor developer/distribut

# Wired World

It's one thing being on the Internet, it's quite another to find exactly what you want on it. This month we show you how.



The Internet is big - feally big. Think of something high. The Internet will wrapf around it like a tollet roll around a bemused purpy. The Internet's size in between the property of the Internet's size in between the Internet's size in between the Internet's size in between the Internet high the specific fact you need because it's report to the Internet because it's report to the Internet between the Internet because it's report to the Internet between the Internet because it's report to the Internet because it is reported by the Internet by the Internet because it is reported by the Internet by the Internet

slaughrevi-in-tha England (test, in my case). It's simple enough to believe that anything-you wint is out on the Net somewhere but you'll need some tools to help find what you'ce looking for. Naturally you're not alone either. Other people are looking for what interests their also. At any one stage there's probably a cricket ground if refuse to say football pitch full of people looking for the same thing as you, and using a 'Search Engine' is the only

way that anyone is going to be successful. There are several search engines, but only a handful of them are really any good so there's no reason to use a substandard one. We'll be recommending the best and showing just how to use them to the best effect.

#### Search Engines

First of all, let's explain what a search engine does. The search page that you will access is is the front end of a massive database that the search engine has compiled. It doesn't actually go out and find what you want when you ask



▲ Good old AltaVista telling us what we already knew Search for Amiga Magazine and get CU Amiga as No.1



A You can't beat FTP Search for finding a file. Of course you have an idea of the filename from the start but if you do, it's will usually turn up a site near by that's fast.

It. It's far yoo big for that, instead, it's onstantly moving around the entire Web, downloading pages (not graphics) and compiling a massive database. The bit that does this is called a 'spider' and if you ever have access to the logs on your own home page, you will get a few hits from the odd search engine spider from time to time — It only happens if your page has a link from elsewhere of course, otherwise the spider worth frow that it depts.

#### AltaVista ahov

First, let's try the AltaVista search engine. It's at http://www.attavista.digital.com, As is nor mail, there will be a 'form' atting gadget to enter your search terms on Pressing the Submit button will have AltaVista search-list database and return a list of 'hits'. This doesn't take very long despite the incredible size of the database, as it has a few gigabytes of RAM on a DEC Alpha server. This makes

AltaVista the fastest and possibly the most intuitive to use. Try entering 'Amiga Magazine' without quotes, into the search box. Surprisel CU Amiga is the first returned. The heading has come from the page heading, with a quick summary of the text and a link to the page. Press the link and you're at CU's home page.

Things get trickier if you want to find something a bit more specific. Let's say, we want to find aller abductions in the UK. If we type "do" into the seach engine, it returns 161.741 his. There are some interesting sites there but not what we've tooking for. Time to narrow down that search. Firstly, if you use upper case, Attalvists will become case sensitive. If you use lower case, it will match any case. So generally speaking, don't use upper case.

What we need are some additional terms.

Let's try 'alien abduction england'. Hmm, lots of sites but nothing specific to the UK.

AltaVista isn't worried about using all of the



might be buried deep within a web page. Whilst it's not as quick as AltaVista, the end results are well worth the wait.

terms we specified in this case. What we need to do is tell it that England is important. USA and harassed his family. Top stuff.

AltaVista let's us use '-' to remove entries of a particular kind if they turn up and we don't particularly want them. If all of the terms are essential, use '+' in front of them all.

#### HotBot Let's look at another kind of search engine,

Wired Magazine's HotBot, who, it will please you to know uses Amigas to develop its site. HotBot defaults to searching for all of the words, as if you had placed '+' in front of all the terms. The interface is a little clunky but it's a superb search engine. You can use 'AND' and 'OR' on the search box if you want to ensure words occur or allow either/or occurrences. Notice that you can cycle the form gadget to match any word. A useful method is to find a page you really like, enter the URL and cycle the gadget to 'Links to this URL'. Try this with http://www.cu-am/ga.co.uk in the search box. Great, we get all the pages found that have links to CU Amiga's home page!

#### **Deia News**

Searching the Web isn't everything that search engines can do. One of the greatest resources must be that of http://www.dejanews.com, It works in the familiar way, however it searches Usenet newsgroups rather than the web. Tens of thousands of newsgroups full of people vacking away about those topics. You canguess the wealth of information and opinion that can be found. Let's try something useful Holy cow, the No.1 hit is a post by someone who says that Hydra Systems sell such a unit and they are based in the UK. Handy huh?

Now for a glimpse of the dark side, click on the chap's name rather than the article title. You'll get a list of all of the groups that this individual has posted into, scary. Deja News

has a very nice 'Power search' page which allows changing of the specifics of the search One of the options, which is usual for all search engines, is to change the amount of hits per page and how verbose the listings of

#### FTP search

Next, suppose we're after a file? We can't find. it via the Web, or perhaps we did but the site is incredibly slow. In this event we can use FTPsearch at http://ftpsearch.ntnu.no/ftpsearch/. Here's an

each hit are. Definitely worth a play with

example; I've gone to HotBot to find the Macintosh demo of Duke Nukem 3D for my Shapeshifter. I found it by using 'macintosh "duke nukem" demo download". Unfortunately the site was really slow so I aborted the down

#### Search engines

- http://www.altavista. digital.com
- http://www.hotbot.com http://www.excite.com
- http://ftpsearch.ntnu.
- no/ftpsearch/ http://www. deianews.com

load but I now knew the filename. Going to FTP search and using 'duke68kdemo', I found a site on an American university that was very fast and downloaded it direct by just simply

With all of these search engines, the techniques for finding what you want are the same. You'll pick most of them up by experimenting. Just remember to use terms that relate specifically to what you want, otherwise use multiple terms to narrow the results down further. Lastly, don't just look at the first hits. Sometimes the best results can be found further on down the list, perhaps a few pages in. Occasionally you will have to hunt through like this, using the back button on the browser to return to the hits and trying the next site and so on. Don't forget to put your favourite search engines in the fast links of your browser. All you need to do then is click on the buttons to you are looking for and a lot more besides. Mat Bettinson



in a newsgroup with an address of someone in the UK that sells an A1200 PCMCIA Ethernet adaptor. Hallelujah!



# **Surf of the Month**

You know how good a search engine is for finding something useful amongst the Web's lunatic ramblings - but just

suppose you actually LIKE lunatic ramblings?

here was a book published about a decade ago by the Reverend Ian Stang of the Church of the SubCenius called High Weirdness by Mail. The theme of the book was that he snake oil merchants of the

memo of the book was the snake oil merchants of the past hadn't gone, they were just pedding their wares by post. When the author wrote in the introduction that "The kooks are our future" he didn't realise how right he was. The future is here and the Internet is now the medium of choice for the world's wackiest. Welcome to the world of high weightness by E-mail.

weirdness by E-mail.
First port of call is the utterly brilliant Worst of the Web site.
Buzz, Melvin and Chip, the hosts of this site, review the Web's strangest, ugliest and most

strangest, upliest and most bizars sites. I found the Harass Bob homepage link to be the most impressive. The webmaster of this site decided to harass some guy called Bob for no particular reason. He seems to have dediand energy to harassing Bob, and has created some real works of art in the process. If this is your kind of humour, you'll probably be pretty keen on the David Hassaheff is Antichia.

the David Hasselhoff is Antichrist page. It's all really true. Just read this page and you too will become a believer. Did you know that UFOs are the work of

Did you know that UFOs are the work of Satan? Check out the Paranoid Conspiracy Cosmic Rapture homepage. For a slightly less raving view of the famous Martian face / funny rocks (take your pick) controversy Cydonia.org

Kookfans should check out the brilliant
Kooks Museum. Go there and visit such wonders as the Library of Questionable
Scholarship, Conspiracy Corridor and the
Monuments to Kookdom. As we are all Amiga

users, why not combine your interests and visit Squid's Amiga page – unsolved mysteries, wherein you can find the secrets about Commodore and plenty more about UFOs monsters and earth mysteries.

No round up of the weird and kooky can miss out on the old favourite, conspiracy theories. The oldest on-line conspiracy has to be the infamous Illuminati, who calim to date back to the last days of Atlantis. Not a busy site, but it contains links to some other famous and dependent presents.

acies such as the Trilateral Commission and Microsoft. The great enemies of the Illuminati are the Discordians, who can be found at the House of the Techno-Discordians. Discordianism is the only religion in the world which hands out official pope cards, but this site must be considered dubious due to the .org domain which surely no self respections.

can read all abdut Emperor Norton, the one and only Emperor of the United States. Although entirely self proclaimed, he got to eat for free in all the best San Francisco restaurants, had

his proclamations published in the papers and made his own widely accepted bank notes, which all just goes to show that however mad an Englishman may be, he's probably far saner than most

of American society.
There are certain persons who have become almost gods to lovers of the

weird. Timothy Leary was the doctor who told 60's students to turn on, tune in and drop out. In the 90's he wanted everyone to boot up, dial in and log on: Check out Tim Leary's home page and guess what? You can take a tour of his home. The good Doctor died earlier this year and had his ashes launched into space, higher than even he had been before. Robert



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for the sanity.

#### Those sites in full

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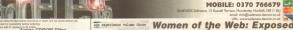
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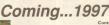
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# **Desktop Publishing**

Last month we showed you how to get started with this excellent application given away free with May's CU. Now it's time to really get down to some serious page designing...

Ther last month's pentle walk through Professional Page's more bissic final tures, we should now have enough momentur to try out the program's more powerful functions. The basis for double page spread. Open any magazine and you's see some left and right pages, formand you's less one left and right pages, formpage that join to assess appeads a left and gifting page that join to assess appeads a left and gifting to create a DPS is Problege, you first need

to create at least three pages, with pages two and three forming the DPS. Page one would be a single right hand page and two and three would form the DPS. Before you can see a DPS in ProPage however, tick the Facing Pages item in the Preferences menu.

One of the advantages of having Facing Pages turned on is that you can now place a picture (or text) right across two pages as you can see in our example (right). This is particularly useful if you have a printer that can print to the edges of the page. If you don't, you'll be left with a white gutter ground each page. Remove them by simply trimming the white bits off after printing.

After placing a picture across both pages, let me now highlight some of the other interesting things you will find on our DPS.

# | Now Fore Format | Fage Name | To Page | Trop | Fage Name | To Page | Trop | Fage Name |

▲ To make a double page spread (DPS), you need to create at least 3 pages so that pages 2 and 3 form the spread.

# **Professional Page 4.1**



▲ Great looking layouts like this are dead simple in Professional Page. Read on to see how you could create one like this.

#### Step 1

Starting in the top left hand corner, you will notice the headline for the page. This is made up of a picture (the large Z) and some text which is made up of two elements. A top layer in red and then a grey shadow piece below it

to help lift the red piece of text off the page. The pieces of text are arranged in layers



▲ Mix graphics and text, or, make drop shadows by manually making a clone of the text and send it behind the priginal.

using the two icons which sit directly below the Page Position gadget in the centre of the toolbar. These icons let you bring active elements to the front or send them to the back.

Drop shadows on headings etc, are all the rage in publishing these days and simple ones like these here are easy to do in ProPage. If however you want to create soft shadows with feathered edges, then you will need a package like DrawStudio or ImageEX.

#### Step :

I now won't you to take a look at the text on the right hand side of the DPS example. As you can see above, text runs around the main range. It's a simple effect to do, none you know how Start off by using the free hand to the start of the



A Text flows around an image by using the freehand tool to create a shape like this. To make the line invisible, give the shape a line weight of None.



A To print a colour layout like this, select Colour and to get it to print in the right place on your paper, experiment using different attributes in the Output Offset text gadgets.



A If you want to make ProPage even more powerful than it already is, you need the 70 or so ARexx Genies available free with manuals bought from LH Publishing.

rer and te alent to 4 points, the thickness of the line I'm going to add to this axt gadgets.

box. I work in picas and points because text and line weights are measured in points.

Enter the same figures (0.04 or equivalent) in the Top, Right and Bottom text gadgets for Margins. When finished, click OK.

Now choose from the Draw/Line Weight menu item, a line weight of four points. To change the line's colour, choose Line Colour from the Draw menu. A neat trick here, is to enter a larger margin than the line weight and make sure transparency is off for that box. This results in a piece of white space around the line, useful when you need to make sure inset images stand out from the background.

To change the unit of measurement, go to Preferences/Layout Tools where you can choose between Inches, Millimetres and Picas As a matter of interest, there are six picas to one inch and 12 points to one pica. There is agenie available that will convert between units

And that's it for this month's tutorial, but do remember that there's no real substitute for practice making perfect. And don't be afraid to try just throwing some pages together. You might be surprised at what you can do...

Larry Hickmott



▲ To see colour pages, choose Screenmode and select 256 colours. For two facing pages, choose Facing Page Layout.

The final task in getting the text to follow the shape of the freehand line, is to double click on the freehand shape to bring up the Active Box requester. In here, click on the Irregular button so that any text placed over

this box runs around the freehand line.

This trick can be used to shape text into recognisable images like one of a phone, or even the silhouette shape of a car like the one featured here. This type of task is covered in the tutorial book available for ProPage.

#### Step 3 While still on the right hand side of the page



image but remember; create the margin so you can see both your line and image together and make sure that Transparency is turned off so the image behind doesn't show through any of the margins created.

 you will notice a picture of a car pointing down the page. This was rotated by double clicking on the o bring up the Active Box requester. I text gardnet with the label. Botation

picture to bring up the Active Box requester. In here is a text gadget with the label, Rotation Gadget next to it. Use this to rotate objects by one degree increments. You can also rotate objects by holding down the Ctrl key and using the Null Pointer to drag a handle around to the angle required.

#### Step 4

Let's now move around to the bottom left hand side of the DPS. Here we see two small 'insets', images that are placed over the top of a main image. There is also some text (notice the drop shadow again) but let's ignore the text and concentrate on the two insets. There are a number of points worth noting

here. In both images. I have used a genie (genies were supplied on the CD version of this program), called Fit Bitmap to Box to make sure that the image fills the box, a fddly task to do manually. With the bitmap filling the box, you can choose to have no frame around it (the top most inset image) or to add a frame like the yellow one. Start by double clicking on the box contain-

start by double disching on the box containing your image. Make sure the check box next to the label Box Frame is black to signify it is selected. Turn off Transparency by making that box gray/white.

Now click the pointer in the Left text gadget opposite the label Margins. Enter into the Left text gadget a small unit of measurement. I work in picas and entered 0.04 which is equiv-



▲ If importing a graphic, hold down the Shift key when pressing Right Amiga-G to choose the filter you require.



▲ Here's a DPS or double page spread. In ProPage you can edit elements on both pages as you view them.

#### Next Month:

After reading this month's tutorial, you should now have an excellent grip of how to use this program. With just a like practice now, you should be able to produce fairly professional results.

Next month, well be taking the next big step by firstly tooking at faxt formatting and then introducing some professional user tips for this great peakage.



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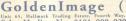
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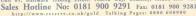
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pictures. In word: graphics.



enswering about



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#### Punctuation. Like the magazine.



Thought I'd drag the "Sounds" icon over to a spare work partition. I could work through it from there. I've learned my lesson. Some Wish I'd known. This innocu-

ous little icon. Contained almost After about 120 seconds load-

ing I feared that the hard drive was in melt down. Chickened out. Tried rebooting. Unfortunately this left the parti-

Unable to complete checksum. Only way out was to reformat. Can you imagine what would have happened if I'd put the icon into

Loaded the CD up, Icons, Icons, Everywhere, But alas, They were Lesson here is commercial

the CDs. "sounds. X meg" And finally, CD music software, Everyone says, Oh! I got x to play OK. Well. Every piece that I found had volume disabled or removed. In the end I wrote to a guy in get it in the UK.

All the best with a great mag.

#### Andy, no address given.

The sound drawer on CUCD7 was 45Mb. This is pretty normal for a directory on our CDs, and they can get a lot bigger. This is the beauty of CDs. Most people browse through the files on the CD and take just what they want. If you use DOpus or similar, it is very easy to check how big things are before copying.

filling your hard drive, you should have just let it happen and then deleted the excess. The danger is in

switching your machine off while it is writing to the hard drive. Although a program like Quarterback Tools (given away last month) can often fix it, it is something to be avoided.

As for CD audio software, there is some on pretty much every CUCD. AMICDFS2 comes with some check out the CD-ROM drawer.

As for CUCD10 having nothing but icons, actually it has plenty. Unfortunately a bug in the old Commodore file system used on CD32s and Squirrels means that they are unable to read it. If anyone still hasn't got a replacement from us, just send your CD (not the case) to our normal address and mark the envelope "CD10 fixdisk".

#### He's back!



I have owned an A500 for seven years now, and up until about two years ago used it regularly. I have

now decided to get back into computing and would like to buy been keeping up to date with general. I would like to ask you a

1. What sort of set-up would you recommend? I am looking at applications, possibly involving be realistically possible? second hand A1500 and upgrade build a tower as you have been 3. If I had my system, complete with peripherals, up and running

would it soon become obsolete? 4. Finally, what are "Siamese sys-

#### Adam Webb, Kent.

An A1200 system with a MIDI module, a decent '030 accelerator with some extra memory and a hard drive will give you a very nice system

which will run quickly and smoothly and won't cost too much. If you want to spend a bit more, a big box machine with Zorro slots will allow you to buy a sound card, giving you CD quality 16-bit sound. Make sure you pick up our March 1997 back issue, in which we gave away OctaMED SoundStudio, the best Amiga music package available. You can use this to produce direct to disk mastering on your hard drive, but remember that at CD quality output you'll need about 600Mb spare space on your hard drive per hour of recording. A CD-ROM writer can be bought for a few hundred pounds which will allow this to be burnt onto CDs. Emulating PCs is slow, but Mac emulation works very well indeed. An Amiga will emulate a Mac of equivalent specification perfectly except for the display. Four colours is about your limit to avoid slowdown. although look out for a review of the

ware. An old style big box Amiga can be an inexpensive and excellent setup if you intend to use your machine specifically for music. 3. The system would be very expandable, especially if you go the A1200 tower route. No computer has suffered less from premature obsolescence than the Amiga.

Graffiti graphics adaptor very soon -

this promises to solve this problem.

2. The A1200 set up will be a little

more compatible with modern soft-

4. Read the review last issue! Basically they allow an Amiga and a PC to work in very close harmony, sharing resources and hardware, and they are quite brilliant.

## Citizen K

I am hoping you can help me with want to use with

any printer driver software to get

I cannot locate an address for I talk to seems to be able to offer me any advice or help

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▲ Using the manufacturer's print drivers is not always the best option — but it certainly is in the case of the Citizen 1200+ printer.

proved to be so difficult a problem, Please help.

Tracey Keenan, North London.

Actually, you do have a printer driver for it. The Citizen 120D+ can be run in two different modes, IBM proprinter and EpsonX mode. Drivers for these two can be found on your Workbench extras disk

However it is well worth giving a call to your local PD library and getting them to sell you the Citizen Print drivers disk. This was released for free by Citizen some time ago and directly supports the 120D+. You will find that using it improves the quality of output no end. Try Classic Amiga PD on 0161 723 1638.

#### Upgrade mania



1. What is the minimum hard drive you recommend? 2. What is the cheapest accelera-

3. What are your personal favourites in AGA games? 4. If I connect a CD32 to my A1200 can I save from it to my

5. Will I need extra memory? 6. Are there any Amiga clones for Plan It Letters, Partition Magic 3.0 and finally, More RAM More Speed by Hurricane?

Mr F R Parker, Birmingham.

1. Depends on your usage - writing text requires a lot less space that rendering large 3D animations. Basic minimum is probably 340Mb smaller drives cost little less anyway

- but with hard drives you can have too little but never, ever too much! 2. Given that the excellent Blizzard MkIV 50mHz '030 is down to just over £100 it's getting hard to recom mend anything cheaper. 3. XTR, SWOS, Worms DC, Trapped: see our "50 Best Amiga Games Ever" feature in the April issue. 4. Yes, If you have a CD32 already then fine, otherwise you're better off buying a proper CD-ROM drive. 5. Very advisable. Your accelerator will either come with some or take industry standard memory SIMMs. 6. Wordworth Office 6 is a good place to start. You might also want a DTP package such as ProPage 4.1 which we gave away with the June issue. Hard drive partitioning software is not a problem for the Amiga - you'll probably get some with your hard drive, otherwise check out RDPrep. We aren't sure what More RAM More Speed is, but if it's some kind of RAM doubler you probably

#### won't need one, as Amigas are a lot more memory efficient than PCs. Giving hard drives the boot Whilst in the



process of con acquired a larger Western Digital 850 Mb. With the

aid of the Workbench 3 hard drive install disk. I managed to prep.

#### **Tech Tips**

**CD-ROM** drives and mountfiles Everyone is going CD, and mountfiles seem to be causing the

most difficulty to readers installing CD file systems. Squirrel users should find this useful too, their filesystem needs updating too, as anyone who had problems with CUCD10 knows. The mountfile is a textfile, in this case usually called CD0

which tells the mount command the details of a connected drive. This can be a Zip, CD-ROM drive, even a recoverable RAM disk. The two things you are most likely to have to change are the unit number and the device. In some file systems these are set up in tooltypes in the icon and can easily be changed through Workbench. In others you have to edit the mountlist itself. Load the file into a text editor such as CygnusEd, overwrite the relevant lines, save the file back and you are done.

Unit number will be 1 for an IDE slave device, for a SCSI device such as one connected via the Squirrel - it should match the number dialled or jumpered on the back of the drive, and should be different to that assigned to any other device. The device field should, confusingly, read SCSI.device for most IDE mountfiles, but the mountfile that comes with the filesystem should already have this set.

#### Squirrel users

Squirrels can have the CD drive set up in two possible ways. One is as a CD32 compatible format, in which case the device name is cd.device and a unit number of 0. If you require this it is probably better to keep this software installed and install the new file system as an optional CD1: which you can mount if neo essary. Non CD32 set-ups use the device SquirrelSCSI.device, and the unit number 3 seems to be fairly common but do check.

When you are installing a new CD file system, there are a couple of precautions worth taking. It is a good idea to put the new CD0 mountfile in Devs, not Devs/dosdrivers. This way it will not interfere with your old system if it goes wrong. Move your old CD0 into storage. Then reboot your system so the old CD0 isn't mounted. You can now try out your mountlist by opening a shell and typing in "mount devs:cd0" and if your system hangs, you can just reboot and it will go away. Once it is working to your satisfaction you can put it

of my smaller hard disk to it. Then the hard drive would not boot up. A friend suggested breaking the lead to pin 1 which, in desperathis manner? tion, I did. The drive still does not cold boot, but on using a warm

boot immediately after, it does. Is there anything I can do to enable the drive to boot from cold, and what is the reason for

in Devs/dosdrivers and it will

mount on bootup

#### D.D. Green, Huntingdon

Unfortunately, because some Amigas start booting very quickly, slow hard drives can be caught out. They are too slow to spin up after power up or

Continued on next page... > >



drive, the Amiga fast boot up might miss it. See 'Giving Hard Drives the Boot'.

reset. Pin 1 carries the reset signal. and cutting it means that the hard drive isn't going to spin up every warm reset. It is perfectly safe to run

your hard drive in this fashion. Solving the power up from warm reset problem is a little trickier. The simple solution is just to power up and then almost immediately to a warm reset, but there are alternatives It can be done electronically, although this isn't a simple operation, and we wouldn't recommend it. The simple answer is to switch on and reboot straight away. This isn't much of a pain if you have a reset button on your tower. We'll show you how it is done in the near future.

For anyone with a similar problem who doesn't fancy chopping up their IDE cables, there is a program on the Aminet called A1200 HDPatch.lha (13k) which claims to solve these sorts of warm reset problems.



magazines, I feel the time has come to invest in CD-ROM and allow the family to use what appears to

be the future of software. I can buy what I need from Evetech but I was hoping that I might be able to use my son's perfectly useable Philips CDI. How can I do this?

#### R. Good, Nuneaton.

Oh dear, I guess we can't help everyone. The fact is that there simply doesn't seem to be any practical way of doing this. CD32s aren't a problem because there are networking software CDs to do the work for you. There is as far as we can find no

software / hardware for a CDI to Amiga link. If any readers know otherwise, please let us know!

#### **Broken games** and registration



1. Because of the rarity of new RPG and adventure games for my A1200 I am constantly searching for games made for the A500 to

bolster my stock of games, I am house bound and get a lot of entertainment out of my Amiga. but many of these older titles just don't seem to work on my A1200, even if I use a degrader. Should I buy an A500 or is there some other alternative? 2. I have come across many utili-

ties and software via Aminet and other CD-ROMs which are 'unregistered' shareware, and these programs are often disabled in some form. I know the author wants (and indeed should have) support and payment for his/her work, but the address is usually in Europe and they ask for payment in Dollars, Deutchmarks or Francs,

I'm sure there are many users who are quite willing to register and pay the fee but give up once they see the details. How does one deal with this?

#### A.E. Perryman, Northumberland.

1. First off the good news. There are a lot of new adventure / RPG titles in the works. You should find plenty to keep you amused over the next year! Getting older games to work can be tricky... Relokick 1.4a is, we believe, the current top degrader, but ask your favourite PD library about

game patches - sometimes there are patches to get a specific program to work. If no degrader works however, it may be that you are running into problems with the floppy. Escom fitted A1200s with floppy drives that didn't like some older disks. You can have the internal floppy replaced, but on the other hand I've seen second hand 1Mb A500s for under £50. 2. A good argument for the introduction of Euros? Shareware authors are rarely reluctant to take your money, and will usually be happy to take pounds sterling to a similar value. Drop them a note and ask, and tell them to quote a sterling price in the future! You can actually buy foreign notes from any high street bank. although changing currency will probably cost a couple of quid. The best option, especially if you use a lot of shareware, is to phone your bank and ask them to issue eurocheques to you. These work just like standard

#### cheques but can be written in European currencies. Remember never to send coins! A2000 relic?



I am somewhat of a dolt whenever it comes to computers etc. but I am willing to learn. I own an Amiga 2000 with a Quantum 3.5" hard

drive and WB2.05 salvaged from an A600. My monitor is a colour Commodore 1084s and I've plugged some active speakers into that. I'm only interested in trying to make music (cheers for OctaMED SoundStudio, well good, it will get used) and I can play with Ppaint, Dpaint and DTP software all day. So, you may ask, what's the problem?

I notice that there's a distinct lack of references to the 2000. Is this because the 2000, like me, is becoming a relic of days gone by? If, in fact, it isn't, is it worth upgrading, and how would I'go about this? I've been told to chuck it out the window and get an A1200, something about the AGA chipset.

Also, my three eldest children all have Amigas in their rooms, an A500 basic, an A500 with a RAM board and one A600. Could all three be patched to the A2000 so we have our own little Internet?

#### R.J. Stewart, Hatfield.

The fact that the A2000 has expansion slots (Zorro slots) means that it is a lot less of a relic than your children's old A500s, and can be expanded into a mean, lean modern machine that almost every A1200 owner will envy.

AGA is the standard, and a good thing if you want to play lots of games, but doesn't come close to the quality and screen sizes you can get out of a graphics card. Your monitor won't give you the best out of a graphics card, but if you match one with an SAGA PC type monitor you can have flicker free screens with thousands of colours at four times the resolution your Amiga can currently display.

Processor power is yet another priority - how about a Blizzard 2604 Powerboard, due for release around the time you read this? It represents the most up-to-date technology in the Amiga market, performing at speeds a Pentium user can only dream of. Then there is the CD-ROM route easy, cheap and gives you access to huge quantities of great software at give-away prices. On top of that you can plug in CD quality sound cards, SCSI connectors, video toasters for professional computer graphics... the list goes on. Some of the most serious 'power' users out there have A2000s. Still warried it is a relic?

The easiest option for setting up your intranet, would be to use a Parallel or serial network. These are cable link-ups, which aren't amazingly fast but are very easy. Depending on how far you want to take it, you could get yourself a multi 10 card for the A2000 and then have all the other computers permanently connected to each other, the A2000 operating as a 'server'. Phone Epic marketing on 0500 131486 for Parnet software & cable.

#### low to write to Q&A



# FAO

# Frequently Asked Questions

# The Internet: a load or hype, or a genuinely useful resource?

#### Q. This Internet thing then: what's it all about?

■ A. The Internet is a global network of various smaller networks. All the networks are connected together using a standard commications protocol called TCP/IP. All this means is that you can link any computer which understands this protocol to any other computer.

# Q. What could I do with it?

Lead on-line, you can use L-mail (for sending messages and the control of the control of the control of the taking part in discussion groups). IRC (for any real-time text-based chatting) and the World Wide Web (for information). You can download the latest free software to your computer, chat with other Amigo anness and even check out Amigo anness and even check out and chem sistings to the latest images from NASA's Space Shuttle. You can even get details on Open University courses.

#### Q. How do I start?

■ A. You need a modern, suitable software (commercial or freely distributable), and an account with an Internet Service Provider (ISP). Last month we organised a complete Internet solution with software and an Amiga specific ISP. If you missed out last month, then just give Wirenet a call on 01925-495482.

## ■ Q. What sort of modem should I get?

A. Make sure you get a

modem which operates at speeds of at least 28,000 ps. Modems are going through an upgrade frenzy right now and most are available in 33,600 bps flavours, and upgradels to 56K speeds. There are competing 56K standards meaning that not all ISPs will support them. These benefit greatly from a faster serial port like the HSoft Whippet or Eyetech Pord Flus Jin reviewed on page 60.

#### Q. Can I go faster than 33,600bps?

III. A. Vie, either with a 56V modern or by using ISDN, 56K moderns are close to 54K ISDN for downloading but upload at 38900pps, Wirenet, the Amiga specific ISPN estruck a deal with last month, supports the XIV and KSEFlex standard, a recommended choice, ISDN is expensive and quite complex. Well be covering this nest month. Another interesting development is the promise of high-speed cuble modern. More on that when they appeal.

## Q. What is it all likely to cost me?

■ A. After the initial cost of the hardware (modern-£100, and a hard drive for the Amiga) there is a monthly fee to the ISP of about £10 a month plus the normal quarterly telephone bill. You can make it all fess painful by trying the NetConnect pack from Active Software (tel: 01325 352260).

#### Q. Can I shop using the Internet?

A. You can already order

goods in the same way as you would by telephone just by supplying your credit card details. The supplier will debit your account and dispatch the goodies the same day. Try to make sure you use an Amiga web browser with security functions such as IBrowse or Voyager.

#### Q. What about games?

■ A. There are plenty of on-line games to join in; from multi-play-er adventures and strategy games to single player demos. Playing on-line Internet games is a great way to meet people and make new friends (and enemiss)

#### Q. I tried an ISP and they said they didn't support the Amiga, what should I do?

■ A. Try another ISP who knows something about the Amiga, like Wirenet 01925 496482. If you are technically minded, you can connect to almost any ISP anyway, but it's probably best to get one that can offer technical support for the Amiga.

# Q. What's the difference between Internet and CompuServe?

■ A. CompuServe offers its own dial-up service and has its own facilities – accessible only by CompuServe members. However, the popularity of the Internet means CompuServe is now connected too, so you can enjoy E-mail from non-CompuServe users and browse the Web.

#### ■ Q. Does Netscape Navigator or Internet Explorer run on Amigas?

A. No, there are no native

Amiga versions of these programs: browsers that are currently popular with both PC andMac users. Naturally enough though, the Amiga has its own browsers, which we compare this issue. See the Battle of the Browsers headto-head review on page 50.

# Q. Can I use an Apple Mac emulator?

III A. Yes. If you really must run programs auch as Netscape, it's possible to run it on an Apple Mae emulator such as ShapeShifter. For best results though you will need lots of memory (8Mb or more) a faster processor (68030 or more) and a graphics card. In most cases, the native Amiga averaion is faster, more stable and generally a better bet. The latest Amiga browsers are very good.

## Q. Be honest: is it all hype or should I try it?

A. Yes, there is a lot of hype, but the Internet is a fantastic resource which grows in populari ty every day. There are more and more people getting connected. and importantly, more and more companies are getting involved too. This means that you can now check out local information, send E-mail to your overseas penpals and ask for help when your computer breaks down. You can also shop, read the latest news, look at satellite weather pictures check local travel information for a preferred holiday destination you can even book your holiday while still on-line or just watch live pictures from the other side of the world. The Internet is like a gigantic social club, shopping mall. encyclopaedia and TV station all rolled into one. You're missing out if you don't give it a try. John Kennedy



# **Sackchat**

Make yourself heard. Send your views and opinions to Backchat: CU Amiga, 37-39 Millharbour, Isle of Dogs, London E14 9TZ, UK. Or E-mail to backchat@cu-amiga.co.uk

Amiga Cubase? I have been spending a lot of time

at Uni getting people to buy Amigas, as they are ideal if all they are after is word processing their assignments (why get a £1000 PC for just that?). I have sold about a dozen A1200's so far:-)

But I also know a few people who are very impressed by my A4000's music playing and editing facilities. They are literally on the verge of getting an Amiga but for

A lot of people on music courses and in general rely on Cubase. Some have assignments to do with Cubase, so the question which may have been asked before is: Why can't anyone persuade whoever develops Cubase to do a Amiga port? Surely the Atari ST version in 68000 code would be easy to do. I think that an Amiga 'Audio' pack advertised purely in music magazines containing an A1200 with Cubase for a sensible price would sell so well editorial powers to find out what

is stopping this from happening? Imagine a PowerPC version!

Both you and I know all about SoundStudio but musicians and studios seem to love their Cubase.

#### Suki, cc505280@ntu.ac.uk

Frankly it's a bit late for that, although you're right, it would be very easy to port Cubase to the Amiga. Running on the Amiga's highly sup rior operating system it would kick the Atari version into touch.

However, all is by no means lost. Camouflage is shaping up to be an incredible sequencer along the lines of Cubase Audio (in so much as it can sequence MIDI and record AND playback audio from your hard drive all at the same time). We'll be reviewing this exciting new package very soon, giving it a full in-depth test. As for a real Cubase for the Amiga, there's still a chance if the new Amiga International can follow through with a next generation machine.

#### PC sinner Forgive me, sizable Amiga com-

started playing up, and I got to take it home to fix with elastic bands blagged off friends, I started ignoring my Amiga. For one thing. this PC had a monitor, whereas my Amiga used my telly, and for future, don't they? 33Mhz 4Mb 486DX became a 40MHz 8Mb machine, and I was all

happy with the monitor (but disappointed with the sound - I failed blagging a soundcard, so it was

However! Having been called upon to design a web site for work, and trying to use Paint Shop Pro, I realised that, although it was the best thing you could get PC2Amiga and bizarre little interfaces and circuits made here, my Amiga's back. So there.

The moral of the story? PCs are all well and good, until you try puter at work, a 32Mb P133 with a 17" monitor, which is alright).

Anyway, after that lengthy introduction, remind your readers that it's not all that necessary to use a mini-tower case if all you're going to do is re-house your drives. We had an old 386 in a lowprofile case here that wasn't being used, so I 'alf-inched the memory

#### Big A\Box or cheap console? Quite frankly, I do not see how £1000 as an



with). Can PC's come anywhere near the A'Box's performance level?

require a CD-ROM/030+/8Mb+ RAM minimum. I for one welcome

Your excuse that Amigas were meant to be cheap is pathetic

using every little ounce of power the 680x0 and the 60x can deliver



for another machine, and I'm in and putting an Amiga power lead in. So, if you don't mind a slightly battered case, pay a couple of quid for an old 286 or 386 in the paper, rip its guts out and use that! If you get a monitor as well,

Finally, I've noticed that the gramar in the magazine is shocking. Get a grip, Dickey!

#### Steve.AndersonSR@cf.ac.uk

#### Web wonders Hi CU Amiga. This is a congratula-

tory note for your excellent web site. It is the best web site of all page is a model for the other magthe site. There will no more complaints about the lack of new information on CU's web site anymore.

#### Mark Dekeyser, Canada

RS. The same high praise is war-

#### Do it right! My main reason for writing to you

Bettinson's rather excellent article Layer 3 which appeared in CU Amiga's May issue, I was also pleasantly surprised to read that the Amiga sale has finally been

puter on every street is Intel based and needs Windows95 to right! Put the Amiga back where it was in 1985 and give people a choice before it's too late.

#### Ashley Irons.

#### Alex Georgiev, Alex@sasho.demon.co.uk

#### AF Clitherow, Fife.

Some good points there. Yes, we agree there is still a market for a cheap home computer. However, to equate a new Amiga with the development and marketing of the Nintendo 64 is a little off balance. Nintendo and Sony are able to sell their consoles at these amazingly low prices because they also control the software. They take a substantial cut of all N64 and Playstation games that are sold, and their whole sales and pricing policies are based on this. The economvery low prices to get an enormous user base installed, then make the real money by taking a licensing fee on all the software that's sold subsequently.



#### Good show

Ahh, the World of Amiga show, Now that was something to remember! Meeting up with friends, seeing the PIOS-1, chatting to the creator of DOpus and of course, the CU Amiga stand! Such wonders as the portable Amiga, Mat fighting with an Amiga to make it work and an excellent flight simulator (although I can't

remember what it was called!). Firstly, has Mat sorted out the problem now? Secondly, what do you have to do to get a CU Amiga shirt? And thirdly what was the name of that flight simulator? Oh before I go back to tapping in lines of code for MaxLotto v3.x.

#### just how do you go about getting Edward Farrow, wildwing@darkside.demon.c o.uk

Did we have the best stand or what? It was great to meet and greet everyone, and the feedback was encouragingly positive. The 'mystery' flight simulator was of course TFX! Yes, it was there, and playable, despite the doubters! Mat is now a little calmer, but these things are relative... As for getting a job with CU Amiga, prove to us you can be of use. Try sending us an example review, tutorial or feature.

#### Can't beat 3D

of you PD/shareware programmers out there to have a go at creating a 3D beat 'em up. This is on the Amiga which is a pity as Tekken and Virtua Fighter are great. A while back they said we couldn't create Doom-clones but

Once you have something cre-

ated (even in early development stages), send it into CU Amiga to put on the cover CD. Why not team up with your Amiga owning mates and push the Amiga to its limits? Go and play a 3D beat 'em up and see how the camera angles and gameplay are done.

#### Chris O'Shea, Somerset,

You can vote for a conversion of Tekken 2 on the ClickBOOM wish list published last issue, but see our feature on Power Gaming on page 26 of this issue for more details.

#### Out of the blue

It is quite interesting to see that Amiga has finally been bought by a company with a reputable name for once. The bid from Gateway 2000 was certainly out of the blue and startled even the most pessimistic Amiga enthusiasts. But this purchase appears to show confidence and the possibility of selling Amiga computers to devel-



oping economies, like China and Russla. But as we all know, the Amiga was strongest in bonnie old Britain and the revival in this

country may not be as easy The Amiga proved to be the ultimate computer with the first 32-bit console and the pioneer in multimedia. It also gave users and even beginners like me, access to a user friendly computer with an easy to configure, multitasking beast of a processor (even though it was a 500 Plus). But in 1991 the Amiga range offered an added advantage to myself and other teenagers of the time, which was the ease to upgrade, the built in sound card and the built in speakers in your (what weighed a tonne) Amiga monitor. It also had the added advantage of not needing to install to hard disk which

greatly helped the consumer But that's where it failed. Nine out of ten Amiga users did not have hard disks and were thus prevented from unlocking the power of their Amigas and realising its real potential. I think the possible re-release of the 1200 models should come with hard disks as standard. Don't even give consumers the option of not having a hard drive. This way, consumers will have no arguments for being left behind in the race for technology a few months later. The price mentioned: around

£350. Hmm... I think they need to he more competitive than that! But one thing the Amiga certainly should try and do is to attack every school and every college. If the computers are at school and colleges the pupils and students will sure follow by

getting them as well, killing two birds with one stone The Amiga need to improve access times of disk drives and RAM, as most people have complained about these two times

being far too slow. Users should have the ultimate computer as standard and Gateway should use penetration pricing to market it successfully. This may make Amiga trade in the red for a decade, but everyone will have one once the battle is over. Do not make low spec models (apart from the ones possibly going to China and Russia), so software firms can ultimate full specification hardware...

Amiga has a long way to go but to survive it must listen to its market. Thanks for listening Gareth Gudger, Amigaland.

We'll agree with you on the matter of

shipping all future Amigas with hard drives. Problems such as disk drive and RAM access speeds are rather more deeply rooted than you might expect, limited by the Amiga's custom chips such as Paula (it's a bit more than a sound chip!). There are certain alterations that could possibly be made to the existing A1200 to make it more attractive, but really time and money would be better invested in development of a whole new system.

### Our survey says I would like to inform your read

of a survey being conducted by me. Peter Price, to find out what it is Amiga users want to see in the next machine. When enough people have filled in the survey, I'll be mailing it to Gateway 2000, and I would be grateful if you could give the page some publicity in your magazine, as hopefully this will attract people to

vote. Anyone interested in voting in the 'What Next For Amiga?' sur vey can find the page located at: http://www.agima.demon.co.uk Thank you for mentioning the page in the magazine, and I look forward to hopefully receiving

#### Peter Price, agima@agima.demon.co.uk

## Mag closures

I've spotted a worrying trend that I thought had ceased, but now seems to have reared up again: magazine closures.

I remember when there were about ten Amiga magazines to choose from, but that seems like a long time ago. I could never afford to buy them all, and I didn't want to read every one on the shelves, but the choice was there. I've bought CU Amiga most months since I got my Amiga five years ago, and enjoyed a selection of your rivals too. Now it seems the whole thing is drying up. The games magazines went crap and then disappeared, Amiga Pro came and went before I could get into it, Amiga User International has now finished and I'm hearing rumours that the trend is set

Without Amiga magazines, surely there will be no Amiga scene. I don't want to put you on a pedestal (though Amiga magazines are an essential part of it. Virtually all Amiga-related sales are based on mail order, and there's hardly anywhere else we can get information on

the Amiga apart from magazines although the Internet is a big help for those who have access to it

What I'm saying is, if the remaining Amiga magazines close, the whole Amiga thing will probably go up in smoke overnight. I don't need to stress how devastating that would be to all of us, especially so soon after the promising Gateway deal.

We've all been asking for assurances from the Amiga owners since Commodore died. Now I'm asking you for assurance that you will be around to support us, just as we readers have supported you over the years.

#### Glen Francis, London

It's a frightening thought, but don't worry, despite any rumours you might have heard to the contrary, CU Amiga is doing fine thank you. There's a world of difference between CU Amiga and the magazines that have closed. Sales are very healthy and as a financial proposition, the magazine is more than pulling its weight. We can't guarantee CU Amiga will be around forever, but we can assure you it's got plenty of life left in it, and we're manoevering to the best possible position to take full advantage of whatever new developments may emerge from Amiga International. It's a sad fact that when a magazine starts to fade, nobody wants to work on it and that shows through in the magazine itself, which leads to an accelerating downward spiral. With the core team of Tony Horgan Mat Bettinson and Andrew Korn, all die-hard Amiga fans since the year dot, it's certain that you won't be seeing any of that happening with CU Amiga which promises to consistently give you a whole stack of reasons why we should all be sticking with our trusty Amiga, month in, month out,



every month!

# To the Point...

Cheap cover disks? the magazines, and if so how much would they cost?

Clive Seaden, Cornwall

We can't sell you the cover disks alone, but back issues of CU Amiga all come with their CDs or disks. Generally we don't have a license to sell major cover disk applications separately from the magazines. Instead we acquire the rights to publish particular software on a specific issue of the magazine. It is possible that in future we could negotiate rights to publish future cover disks separately from the magazines, although this would inevitably incur extra costs for us. It's also worth bearing in mind one of the main reasons we can put such amazing software on the magazine and sell it for so little is the sheer volume of sales we can count on to offset costs.

#### Not pink enough I'm disappointed by the lack of

pinkness in your magazine recently. Other mags have been area in which CU Amiga is failing a 'Pink Issue Special Edition' in which you just have a plain pink cover and every page is printed on pink paper. It could become

The Pinkyman, Stoke-on-Trent

OK. All we need now is another hundred thousand like-minded people and we might just do it.

## I saw TFX at WOA!

In response to Allan Brown who wrote in your June issue that he wouldn't be attending the World when I saw it up and running. and totally playable. I can tell you played of it, certainly streets ahead of any other Amiga flight

Julian Conner, Sussex

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#### Here's to joint adventures



Whilst flicking through some recent issues of CU Amiga, I came across a December 1996 edition. On the subject of developers such as phase 5 between a powerful international play-

The message of the Gateway ference of last May seems to make sage we got was more than just the be. In fact, it was a positive, if a little vague, declaration that they would third parties, and more encouragingly.

generation Amigas In phase 5's A\Box, and to some degree the machines from Pios. Gateway and Amiga International have sion of the Amiga. Presuming they want to make a new Amiga, Amiga

66 With the Amiga still the major player in non-linear video editing in the USA, Gateway have a market that's over-ripe for a tailor made upgrade path

International could start their own project from scratch, which would surely mean at least a couple of years with nothing to show Gateway, or they could join forces with the likes of strengths, they could then have a stunning new flagship for the Amiga months, rather than years.

Gateway 2000 recently expressed an interest in offering an alternative to With the Amiga still the major player Gateway have a market that's over ripe for a tailor made upgrade path, so closer to home could be the key to get things rolling in the short term.

#### Co-operation can't work



by Mat Bettinson

I was following a conversation on the comp.sys.amiga.misc Usenet newsone chap, supported by some other contributors, had an idea. This being that if the authors of the major web browsers got together, they could make one really fantastic web browser that would 'blow Netscape away' utilities on the Amiga, why didn't all/some of the authors band together to make 'Ultimo Find It Deluxe Turbo

Bzzzzzztl This is flawed logic. Let basis of what the Amiga market needs? No. The main reason is that selves. They probably don't like other programs in the genre and actually

Imagine you wrote the 'inferior program. Someone calls up and says, Your program needs work, let's work together". Rarely is this call made and original author wants to continue be aware of shortcomings since software consumers will have pointed it but it's important to consider this

version, to their needs, from scratch

from the programmer's point of view. trates this well. Stefan Burnstrom, Oliver Wagner & Yvon Roziin all earn considerable sums in sales/shareware fees, good on them. However this means that they are all trying to outdo the general standard forward. Further more, they have radically different

#### 66 if the authors of all of the major web browsers got together they could make one fantastic web browser

ideas about how a browser should any innovative idea could easily be

'borrowed' in some form, or even Due to this having these authors working on the same project is neither viable nor desirable - it can only hinder matters and reduce the level of consumer's choice. If it wasn't for the grammers thought they could do betgrams, all for free, all competing to be the best and hopefully good enough to one day attract a shareware fee. Just let someone try to write a useful program, disable some of its functions, distribute it and then charge £50 for upgrades. They can do it on the PC but just let them try it on the Amiga. No, the current situation is what competition, choice and back

made the Amiga what it is today.

# **Back Iss**

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